

CARD PART NUMBERS													PRODUCTION PRACTICE	
CARD DESCRIPTION	WHERE USED	CARD TYPE	LOGIC PAGE GROUP	CARD LOC	BASE E.C. 717492	OPT #1 E.C. 718556	MAND NO. 1 (CARD READER FEATURE ONLY) E.C. 718958	OPT NO. 2 E.C. 718969	OPT NO. 4 E.C. 739072	OPT NO. 5 E.C. 739065	OPT NO. 6 E.C. 739066	OPT NO. 7 E.C. 739071	OPT NO. 8 E.C. 739268	
KEYBOARD CONTROL #2	KEYBOARD ADAPTER	9072	KMIXX	A2 *	8522128	8522001	NOTE 1	8523616	—	—	—	—	—	8527296
KEYBOARD CONTROL #1	KEYBOARD ADAPTER	9069	KMOXX	B2 *	8521178	8522852	—	—	—	8524282	—	—	—	8524282
I/O GATING & PARITY	ALL MACHINES	9066	MGOXX	C2	8521992	—	—	—	—	—	—	8523648	—	8523648
480 BUFFER	MOD 1 ONLY	9057	MBXXX	D2	8521862	—	—	—	—	—	—	—	—	8521862
960 BUFFER	MOD 2 ONLY	9065			8521863	—	—	—	—	—	—	—	—	8521863
SERDES	ALL MACHINES	L514	KAIXX	E2 *	8522013	—	—	—	—	—	—	—	—	8527302
480 EXTENDED CHAR	MOD 1 EXT CHAR	2231	MCXXX	E4	8521437	—	—	—	—	—	—	—	8524314	8524314
1920 EXTENDED CHAR	MOD 2 EXT CHAR	2227			8521436	—	—	—	—	—	—	—	8524301	8524301
960 BUFFER	MOD 2 ONLY	9065	MBXXX	F2	8521863	—	—	—	—	—	—	—	—	8521863
I/O CONTROL	ALL MACHINES	9068	KAOXX	G2 *	8522109	8522151	—	—	8523664	—	—	—	—	8523664
CLOCK & STEP	ALL MACHINES	9071	KFOXX	H2 *	8521981	8522825	—	—	—	—	—	—	—	8524604
DISPLAY CONTROL	ALL MACHINES	9067	KFIXX	J2 *	8522014	8522836	—	—	—	—	—	—	—	8522836
CHARACTER GEN	SEE PAGE ZZ101		MCXXX	K2 *	—	—	—	—	—	—	—	—	*	*
SELECTOR PEN	EXTENDED BOARD	9088	KTOXX	M2	8521505	—	—	—	—	—	—	—	—	8521505
ID CARD READER	EXTENDED BOARD	2229	KROXX	N2	8522108	—	8523257	—	—	—	—	—	—	8523257

* REFER TO "ZZ" PAGES FOR INTERCHANGEABLE CARDS FOR FEATURES AND RPQ'S

E.C. SEQUENCE STRUCTURE

BASE - E.C. 717492

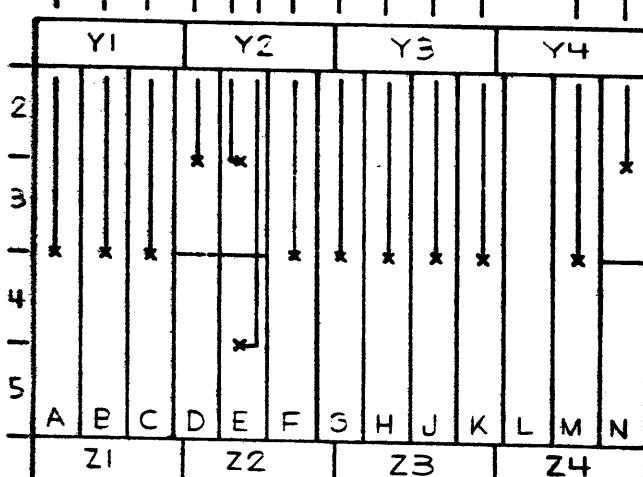
OPT NO. 1 E.C. 718556	OPT NO. 4 E.C. 739072	OPT NO. 6 E.C. 739066	OPT NO. 7 E.C. 739071	OPT NO. 8 E.C. 739268
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

OPT NO. 2 E.C. 718969	OPT NO. 5 E.C. 739065
--------------------------	--------------------------

NOTE 1
MAND NO. 1
E.C. 718958

NOTES

1 CARD TYPE 9072 P/N 8523623 (FOR W.T. ONLY)
OR EC 718969 INSTALLED

CARD SIDE
BOARD

EXTENDED BOARD FEATURE

EXPLANATION OF LOGIC USE

THIS SYSTEMS DIAGRAMS VOLUME CONTAINS ALL THE LOGIC REQUIRED FOR ANY FEATURE COMBINATION OF 3277 DISPLAYS. THE VOLUME IS BROKEN DOWN INTO THE LOGIC GROUPS SHOWN ABOVE. THE WHITE PAGES ARE BASE MOD 2. IF A CARD READER OR SELECTOR PEN IS IN THE MACHINE, THE BLUE KR&KT PAGES SHOULD BE CONSIDERED PART OF THE LOGIC. IF THE MACHINE IS A MOD 1, THE YELLOW MB PAGES SHOULD BE CONSIDERED A REPLACEMENT FOR THE WHITE MB PAGES. IF THE MACHINE HAS AN EXTENDED CHARACTER SET, THE GREEN MC PAGES SHOULD BE CONSIDERED A REPLACEMENT FOR THE WHITE MC PAGES.

BOARD PART NO.	BOARD DESCRIPTION
2625204	BASE W/O FEAT EXT
2625206	BASE WITH FEAT EXT
2625208	EXT CHARSET W/O FEAT
2625210	EXT CHARSET WITH FEAT

SEE EC HISTORY	DRAWING TITLE
JUL74	740382
JAN75	741246
MAR75	741258
	PART NO 1832870
	CLASSIFICATION
D	IBM CORP

A
A
I
S

COMPONENT & CONNECTOR LOCATIONS

TITLE	MOD 1	MOD 2
ANALOG CARD	OIB/A2	OIC/AI
AUDIBLE ALARM	OIC/DSI	OIC/DSI
LVPS	OIB/PSI	OID/PSI
HVPS	OIB/PS2	OIC/PSI
-12V REG CARD	OIB/VRI	OID/VRI
VOLTAGE DIST CARD	OIC/ZI	OIC/TBI
SECURITY KEY LOCK	OIC/SI	OIC/SI
CONTROL UNIT I/O CONN	OIS/J4	OIS/J4
KEYBOARD CONN	OIS/JI	OIS/JI
CARD READER CONN	OIS/J2	OIS/J2

POWER DISTRIBUTION

	TERMINAL		I/O CONN	
SIGNAL	MOD 1 OIA/TBI	MOD 2 OIC/TBI	MICRO	CALICO
+8V	2	23	24	W,V D03
			25	AUDIBLE FDBK
-12V	4	19	13	Z D02
DC RTN	6	22	11	X,Y D08
			12	AUDIBLE FDBK

ANALOG CARD

SIGNAL	BD CONN	I/O CONN		
	OIA-AI(Z3)	MOD 1	MOD 2	PIN
+VIDEO DATA OUT	H6C04			P4-12
+HI INTENSITY	J6E02			P4-15
+HORIZ SYNC	J6D04			P4-14
-BUMP DISPLAY	H6E04			P4-8
+VERTICAL RETRACE	J6B04			P4-10
-SOUND ALARM	K6A04	OIB/A2	OIC/AI	P4-16
+SWITCHED 5V	IN H6B02			P4-19
	OUT			P4-11
-POR	K6B02			P4-20
-12V	J6C04			P3-5
+34V	K6B04			P3-6
+8V	J6A04			P3-4
+ RELAY COIL	J6E04	OIC/ZPI	OIC/TBI	3
-SECURITY KEY	H6A02			—
-SECURITY KEY GND	J6B02 H6C02		OIC/SI	—

COAX

SIGNAL	BD CONN PIN
DATA	OIA-AIE2D07
GND	OIA-AIE2D08

**KEYBOARD
WITH & WITHOUT CARD READER**

SIGNAL	BD CONN - OIA - AI	I/O CONN	KYBD PIN - I.BI
	KYBD (Z1)	CD RDR(Z4)	OIS/JI
+KYBD BIT 0	A6D04	L6B04	I D B05
+KYBD BIT 1	A6E04	L6C04	2 E B06
+KYBD BIT 2	B6A04	L6D04	3 F D13
+KYBD BIT 3	B6B04	L6E04	4 H B08
+KYBD BIT 4	B6C04	M6A04	5 J B09
+KYBD BIT 5	B6D04	M6B04	18 K B10
+KYBD BIT 6	B6E04	M6C04	6 L B13
+KYBD BIT 7	C6A04	M6D04	7 M B12
+KYBD PARITY BIT	C6B04	M6E04	8 N B04
+ALPHA SHIFT	A6D02	L6B02	14 T D05
-KYBD STROBE	C6B02	M6E02	9 R B02
	C6C04	N6A04	
+NUMERIC SHIFT	B6B02	L6E02	16 S D06
-KYBD RESET	C6D04	N6B04	22 C D12
-POR CALICO KYBD	C6A02	M6D02	19 SPARE SPARE
+DE UP SHIFT	B6A02	L6D02	15 U D04
+FF ENABLE	B6C02	M6A02	17 P D11
+KYBD TUNE	C6E02	—	10 AUD FDBK SIGNAL
+CHAR RDY DEC.	—	N6C02	— D10

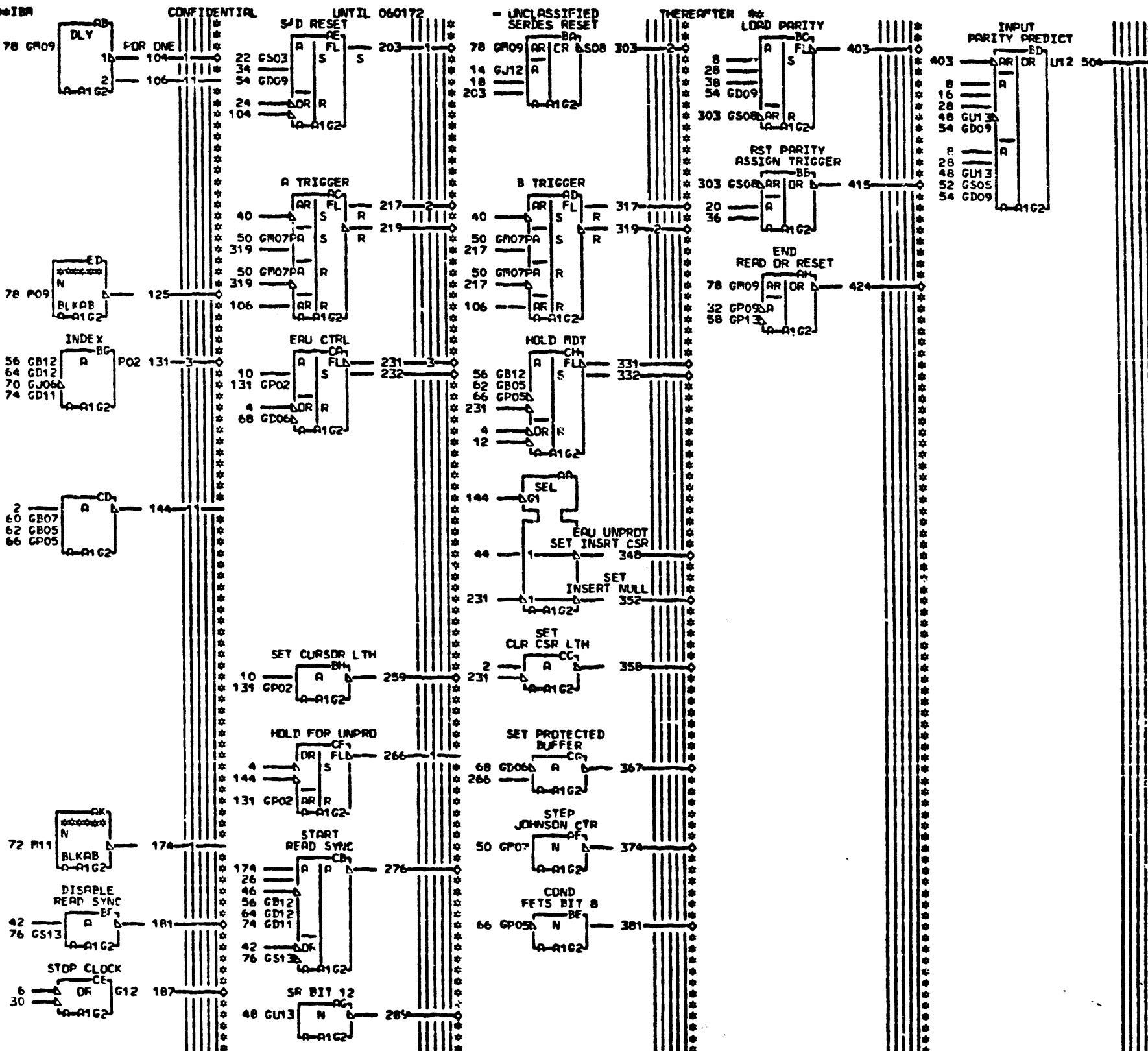
LIGHT PEN CONNECTOR

SIGNAL	BD SIDE OIA-AI	LIGHT PEN SIDE
-LP SW OPEN	MIC13 NIBII	B05
	LIBII	
-LP SW CLOSED	LIBII LIE13	B08
	LIE13	
-LP STRIKE(SIGNAL)	LIB13	B03
+12V LP	LIC13	B02
-6V LP	MID13	B09
GND	MIB13 MIAII	B07

SEE EC HISTORY	DRAWING TITLE	
JUL74	740382	3277-MOD 1&2 CONN CABLE REF GUIDE
JAN75	741246	MACH 3277
MAR75	741258	PART NO 1832870
CLASSIFICATION		
D		IBM CORP

A
A
1
1
5

+ DOT 5 KAO31RE 21
 - RESET KAO31RL 4-29
 - CLR XMIT CHECK KAO31DB 6-1
 + WRITE LATCH KAO31EB 8-12
 + EAU HOLD LATCH SET KAO31FK 10-1
 - CLR MDT HOLD KAO31GG 12-1
 + DATA KAO41RD 14-1
 - SR BIT 3 KAO41RJ 16-1
 + DATA SYNC KAO41RP 18-1
 + 13 TIME LATCH KAO41DN 20-1
 - SHIFT SERDES IN KAO41GF 22-1
 - LOAD KAO41GL 24-1
 + READ LTH KAO51RG 26-1
 - SR BIT 2 KAO51RL 28-1
 - SET READ FAST SHIFT KAO51BG 30-1
 - READ SYNC KAO51CG 32-1
 - OUTPUT LATCH KAO51GC 34-1
 + OUTPUT LATCH KAO51GE 36-1
 - PARITY ASSIGN TRIGGER KAO61CC 38-1
 + TIEUP KAO61GG 40-1
 + CURSOR RDY KAO71CC 42-1
 + CURSOR LATCH SET KAO71CJ 44-1
 + FOL CTR 0 KAO71FK 46-1
 + SR BIT 1 KAO71PC 48-1-2
 + 4.270 MHZ PSC KAO71DL 50-23
 + SR BIT 3 KAO71EKG 52-1
 + SR BIT 1 KAO71GK 54-1-2
 + DOT 7 KFO21EF 56-1-1
 - NEXT TO LAST CHAR KFO31DC 58-1
 - CLR ALL Ones KFO31GJ 60-1
 + UNPTECTED CHAR KFO71GG 62-1
 + KEY 3 KFO11EC 64-1
 - COND FETS BIT 8 KFO11AD 66-1-2
 - END SCREEN INPUT KFO11CJ 68-1
 - ROW 0 KFO11GE 70-1
 + LAST ROW KFO11GG 72-1
 + LAST LINE KFO11CB 74-1
 - KEYED LOCK KFO11ED 76-1
 + POR PGCS1EN 78-2-11

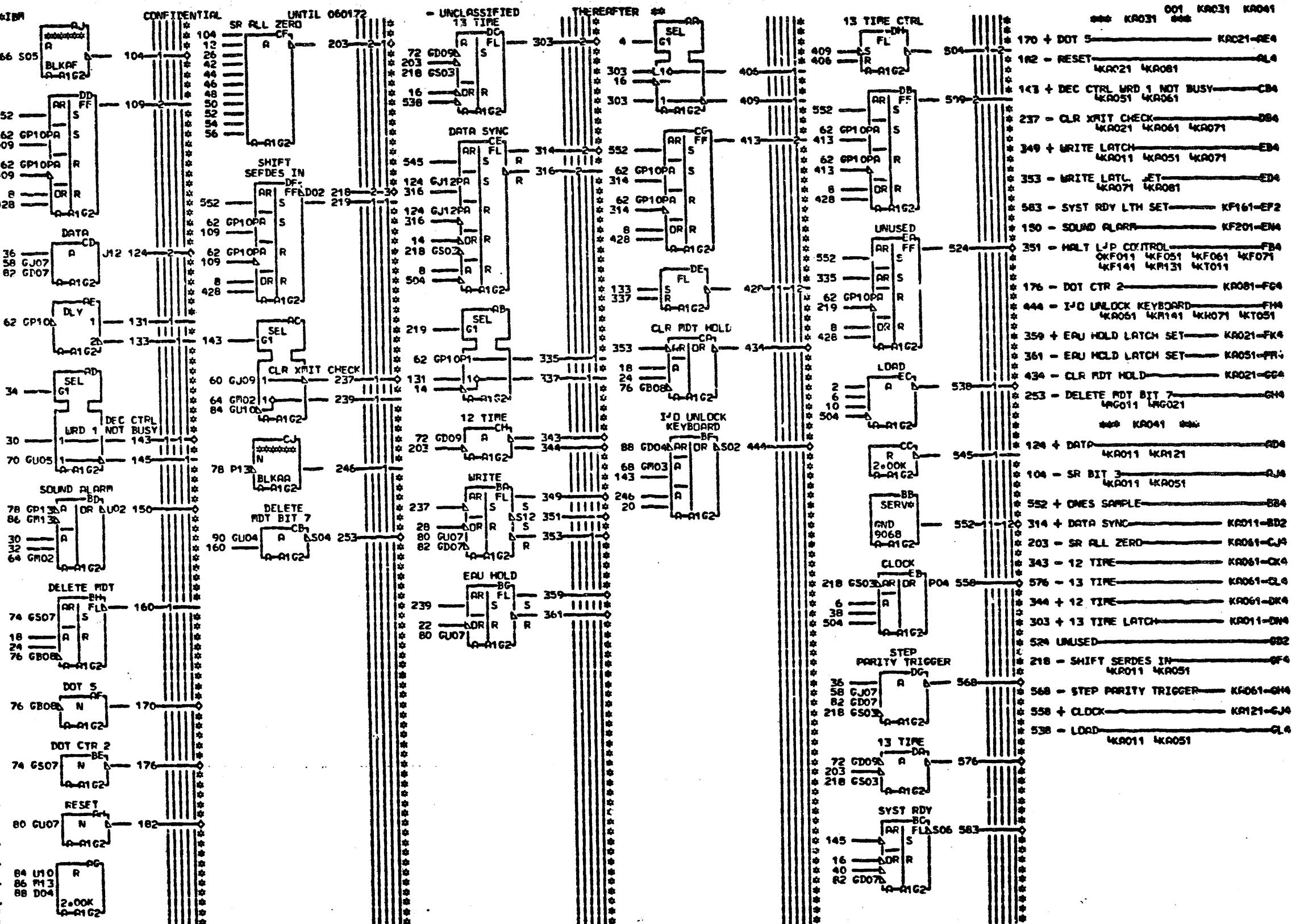


LOC. TYPE
A162 9168

PAGE VER FC LEV
KAO11 000 717946
KAO21 000 717946

I/O CONTROL		SEARCH HISTORY	
E-C HISTORY	B	SEARCH	3277
717473		716959	
717492			
DATE LAST EC		IBM CORP-SDD	KAO21
08-05-72 717946		P.O. 1823849	000

- A TRIGGER KA011AB6- 2
 + B TRIGGER KA011BB2- 4
 - B TRIGGER KA011BB6- 6
 + S/D RST LTH KA011BE4- 8
 - STEP JOHNSON CTR KA011CC4- 10
 - SR BIT 12 KA011CH4- 12
 - PDR ONE KA011EC4- 14
 - PDR TWO KA011ED4- 16
 + COND FETS BIT 8 KA021AH4- 18
 + EAU CTRL KA021BJ4- 20
 - CLR EAU HOLD LATCH KA021BL2- 22
 + HOLD PDT SET KA021CL4- 24
 - SR BIT 2 KA051FL4- 26
 - SET POLL LTH KA051PCA- 28
 - DEVICE BUSY KA051DPA- 30
 + CTRL WRD 2 GOOD PAK KA051DPA- 32
 + CTRL WRD 1 GOOD PAK KA051DPA- 34
 - OUTPUT LATCH KA051GC4- 36
 + OUTPUT LATCH KA051GF4- 38
 - ATTN STATUS BIT KA061DJ4- 40
 - SR BIT 11 KA071AF4- 42
 - SR BIT 4 KA071CB4- 44
 - SR BIT 5 KA071CD4- 46
 - SR BIT 6 KA071CF4- 48
 - SR BIT 7 KA071CF4- 50
 - SR BIT 8 KA071CH4- 52
 - SR BIT 9 KA071CK4- 54
 - SR BIT 10 KA071CR4- 56
 + DATA FROM LINE RECEIVED KA111DL6- 58
 + SR BIT 6 KA121BH2- 60
 + 9.542 MHZ DSC KA121DPA- 62-32123
 + SR BIT 9 KA121EC2- 64
 + SR BIT 3 KA121EH2- 66
 + SR BIT 8 KA121FC2- 68
 + SR BIT 7 KA121GC2- 70
 + SR BIT 1 KA121HH2- 72
 + DOT 2 KF021DB2- 74-2
 - DOT 5 KF021GB6- 76-2
 - NEXT TO LAST CHAR KF031DCA- 78-1
 + RESET KF131DK4- 80-1
 - SECURITY KEY KF201PB5- 82-1
 - SET EAU LTH KA031BD4- 84-1
 - SET I²CSP KB LD KA111H04- 86-2
 - KEYBD RESET GATED KA141DD4- 88-1
 + FETS OUT BIT 7 RB141CP4- 90-1



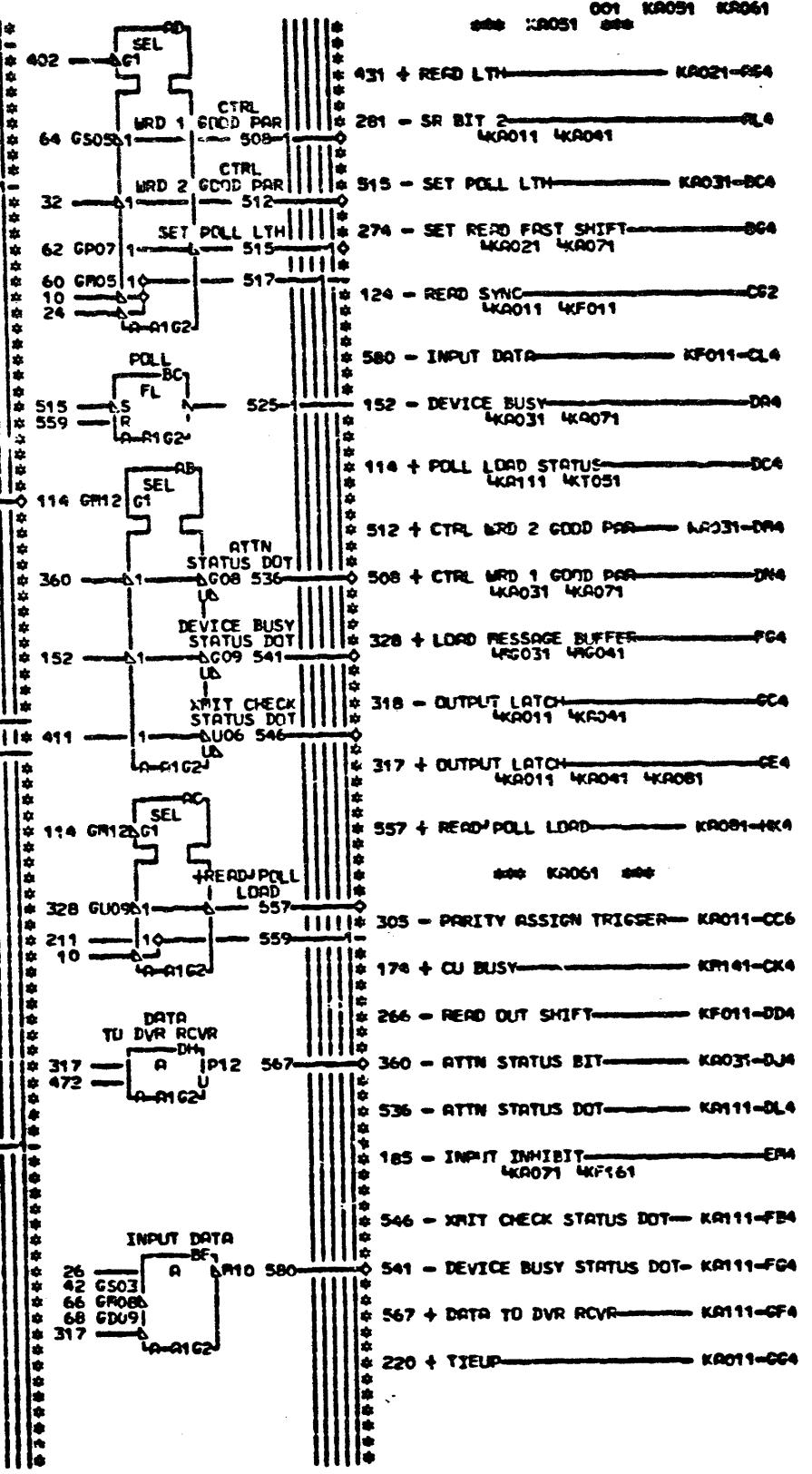
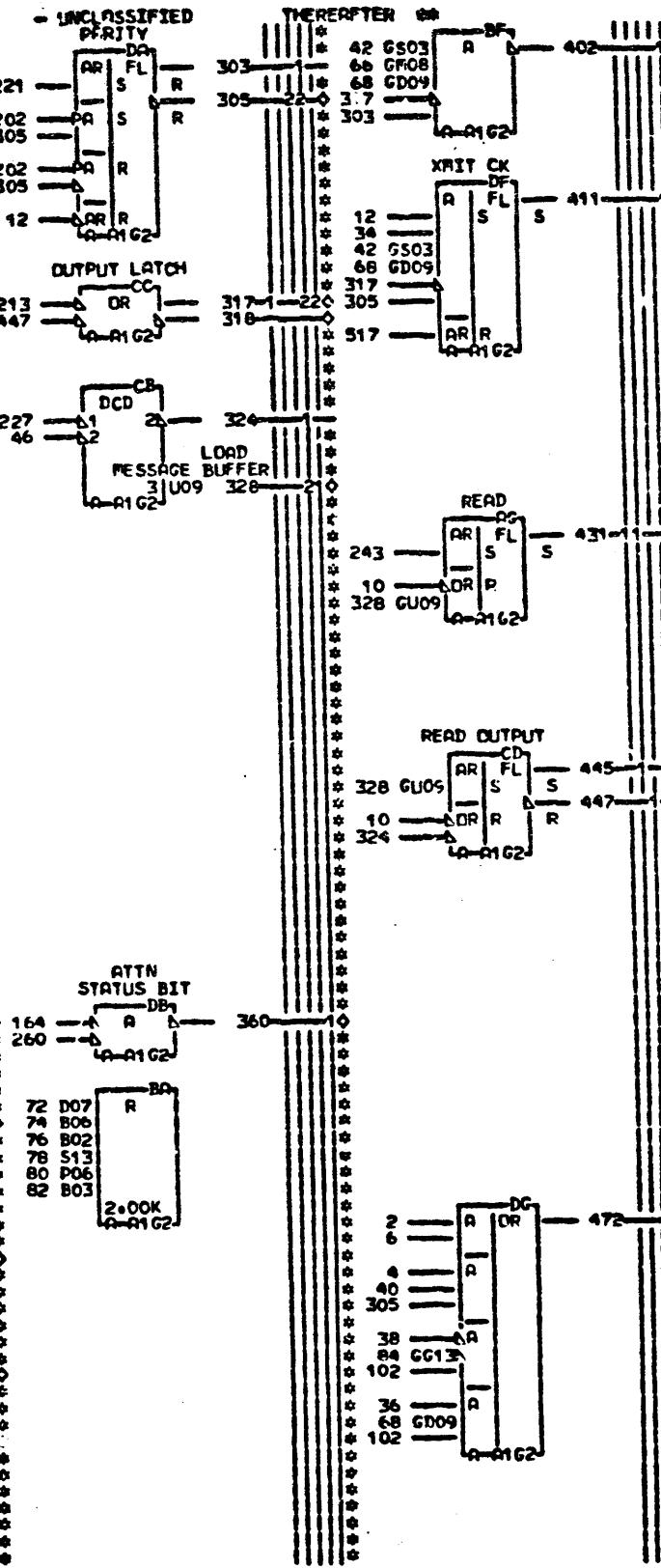
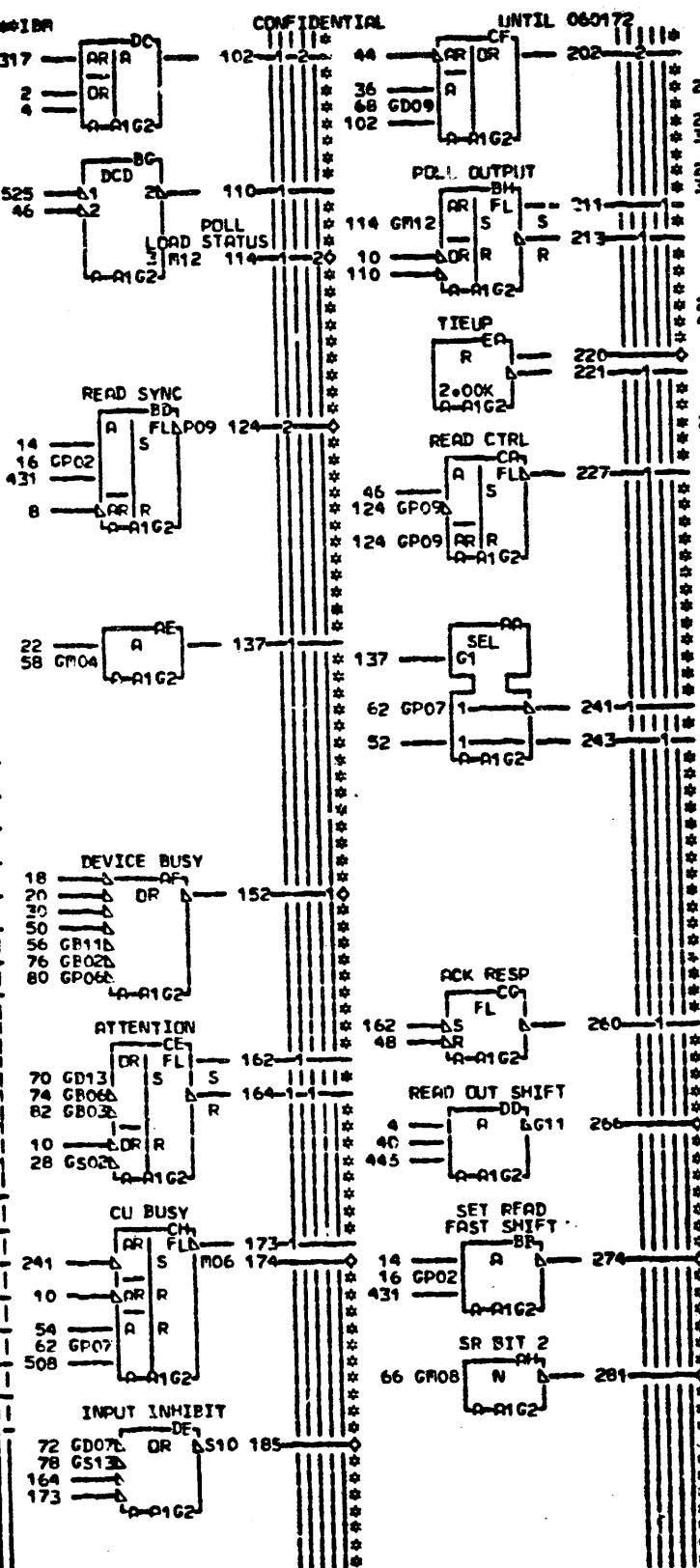
A.SIM TO PN 1563732 EC 717946
 B.SIM TO PN 1563733 EC 717946

LOC. TYPE
 A-01G2 9068

PAGE VER EC LEV
 KA031 001 717946
 KA041 001 717946

I/O CONTROL	
E,C-HISTORY	R,PACH,3277
717473	
716939	
717492	
FRAME 01	KA031
DATE LAST EC	IBM CORP,SDD
08-03-72 717946	IPNo. 1823090 001

+ A TRIGGER KA011AB2- 2
 + B TRIGGER KA011BB2- 4
 - B TRIGGER KA011BB6- 6
 - END READ OR RESET KA011EB4- 8
 - POR TWO KA011ED4- 10-21-22
 - RST PARITY ASSIGN TRIGGER KA011FF4- 12
 - DISABLE READ SYNC KA021BC4- 14
 + INDEX KA021BF4- 16
 - CLR EAU HOLD LATCH KA021BL2- 18
 - HOLD PDT KA021FL2- 20
 + DEC CTRL WRD 1 NOT BUSY KA031CB4- 22
 - CLR XMIT CHECK KA031DB4- 24
 + WRITE LATCH KA031EB4- 26
 - I/O UNLOCK KEYBOARD KA031FH4- 28
 - EAU HOLD LATCH SET KA041AJ4- 30
 - SR BIT 3 KA041CJ4- 32
 - SR ALL ZERO KA041CJ4- 34
 - 12 TIME KA041CK4- 36
 - 13 TIME KA041CL4- 38
 + 12 TIME KA041DK4- 40
 - SHIFT SERIES IN KA041CF4- 42
 - STEP PARITY TRIGGER KA041GH4- 44
 - LOAD KA041GL4- 46
 - I/O CLR RTTN KA071BF4- 48
 - CLRSDF LTH KA071BH2- 50
 - SR BIT 4 KA071CB4- 52
 - SR BIT 5 KA071CD4- 54
 - RST LTH KA081AB2- 56-1
 + SR BIT 5 KA121CH2- 58-1
 + SR BIT 10 KA121DC2- 60
 + SR BIT 4 KA121DM2- 62
 + SR BIT 3 KA121EM2- 64
 + SR BIT 2 KA121FM2- 66
 + SR BIT 1 KA121GH2- 68-1-3
 + DEV CHECK KF141GJ4- 70
 - SECURITY KEY KF201AB5- 72
 - KB ATTN LOCK KP KA021CE4- 74-1
 - BACKTR LATCH KA071CE4- 76-1
 - KEYPD LOCK KA141ED4- 78-1
 - CR BUSY KA021AK2- 80-1
 - SET LP FID LAT KA011HJ4- 82-1
 - 1920 + 480 PC031FE4- 84



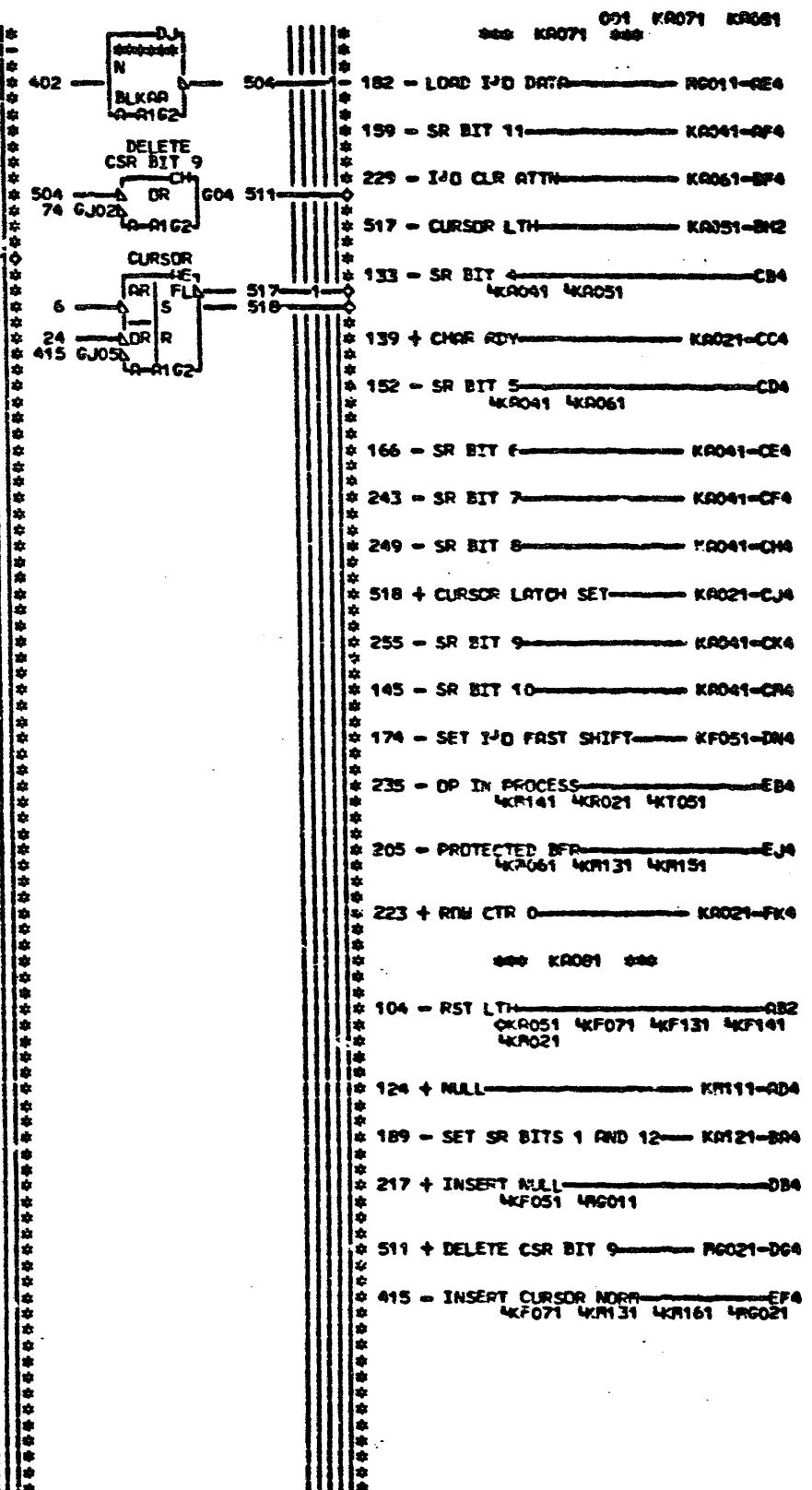
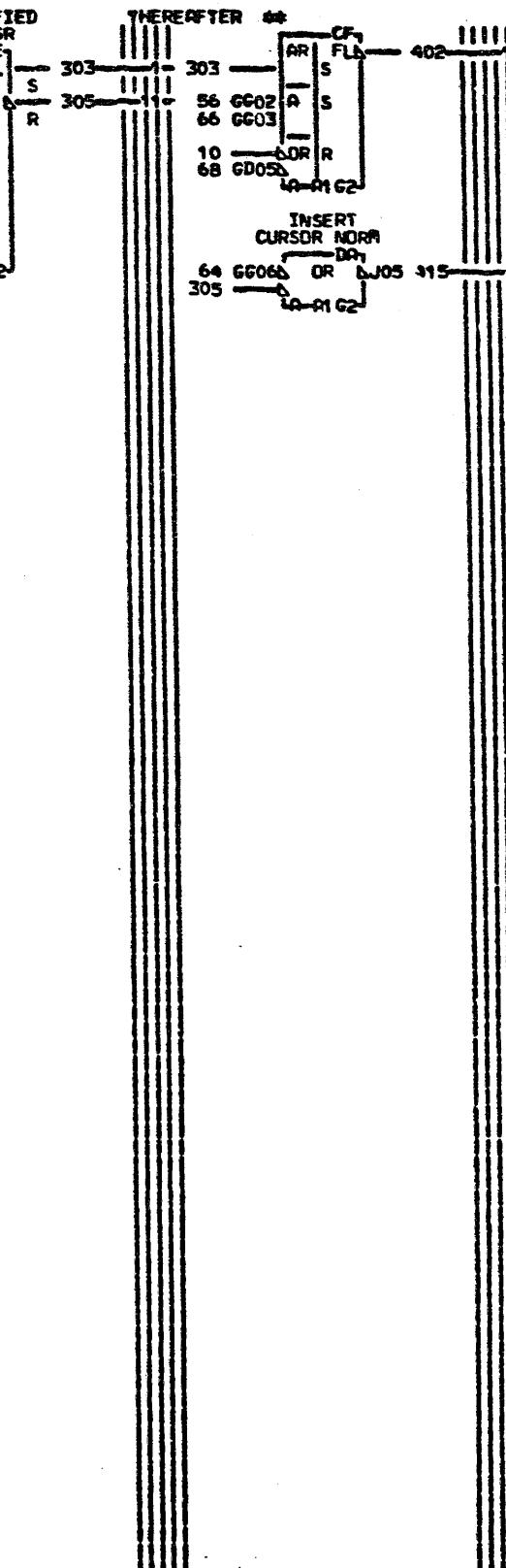
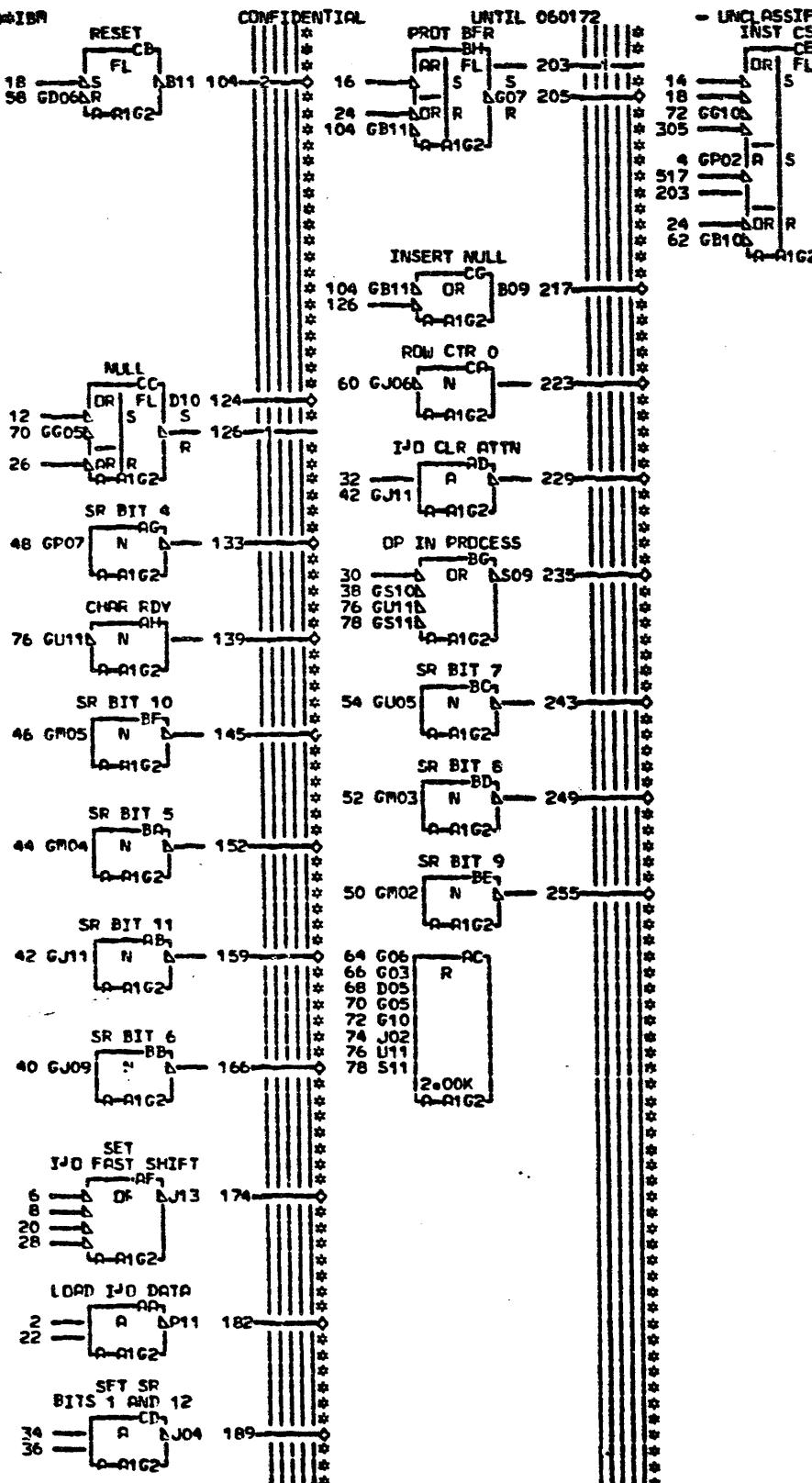
A:SIM TO PN 1563734 EC 717946
B:SIM TO PN 1563735 EC 717946

LOC. TYPE
A01G2 9068

PAGE VER EC LEV
KA051 001 717946
KA061 001 717946

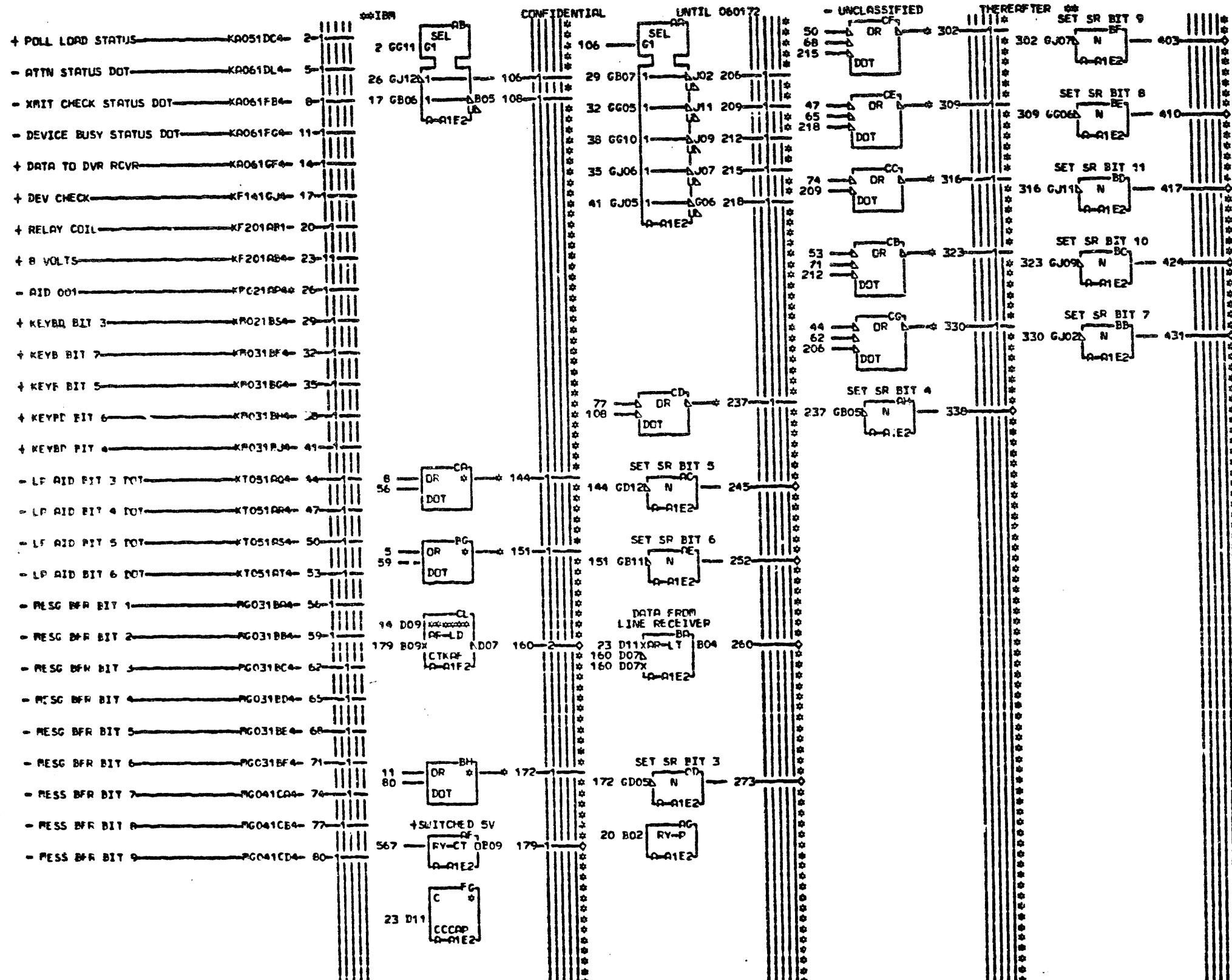
I/O CONTROL	
E.C. HISTORY	B. PARCH 3277
717473	
716959	
717492	
FRAME	01 KA051
DATE LAST EC	08-05-72 717946
IBM CORP. SDD	KA061
P.O. NO.	1823095 001

- LOAD PARITY LATCH KA011FL2- 2-
 + INDEX KA021BF4- 4-
 - SET CURSOR LTH KA021BG4- 6-
 - START READ SYNC KA021CF4- 8-
 - SET CLR CSR LTH KA021CJ4- 10-
 - SET INSERT NULL KA021EJ4- 12-
 - ENQ UNPROT SET INSRT CSR KA021EK4- 14-
 - SET PROTECTED BUFFER KA021FE4- 16-
 - RESET KA031RL4- 18-
 - CLR XMIT CHECK KA031DB4- 20-
 + WRITE LATCH KA031EB4- 22-
 - WRITE LATCH SET KA031ED4- 24-
 - DOT CTR 2 KA031FG4- 26-
 - SET READ FAST SHIFT KA051BG4- 28-
 - DEVICE BUSY KA051DN4- 30-
 + CTRL WRD 1 GOOD PRR KA051DNA- 32-
 + OUTPUT LATCH KA051CE4- 34-
 + READ/POLL LOAD KA051HK4- 36-
 - INPUT INHIBIT KA061FP4- 38-
 + SR BIT 6 KA121BH4- 40-
 + SR BIT 11 KA121CC2- 42-
 + SR BIT 5 KA121CH2- 44-
 + SR BIT 10 KA121DC2- 46-
 + SR BIT 4 KA121DH2- 48-
 + SR BIT 9 KA121EC2- 50-
 + SR BIT 8 KA121FC2- 52-
 + SR BIT 7 KA121GC2- 54-
 + EXIT 1 KF021CB2- 56-
 - END SCREEN INPUT KF151CJ4- 58-
 - ROW C KF151GE4- 60-
 - CLR INSERT CSR LATCH KF161BN4- 62-
 - INSERT CSR BIT 9 KR011RF4- 64-
 - TAB + SKIP KR061DF4- 66-
 - SET CLR CSR LTH KR061FE4- 68-
 - SET INSERT NULL LTH KM111AY4- 70-
 - SET INSERT CSR LTH KM131RZ4- 72-
 - DELETE CSR BIT 9 KP131BL4- 74-
 - CHAR RDY LTH KP141EH4- 76-
 - L/F BUSY KT051RU4- 78-



000 KR071 000 KR081
 000 KR071 000 KR081
 182 - LOAD I/O DATA R0019-CE4
 159 - SR BIT 11 KR041-CP4
 229 - I/O CLR ATTN KR061-BP4
 517 - CURSOR LTH KA051-BN2
 133 - SR BIT 4 KR041 4KR051 CB4
 139 + CHAR RDY KR021-CC4
 152 - SR BIT 5 KR041 4KR061 CD4
 166 - SR BIT 6 KR041-CE4
 243 - SR BIT 7 KR041-CF4
 249 - SR BIT 8 KR041-CH4
 518 + CURSOR LATCH SET KR021-CJ4
 255 - SR BIT 9 KR041-CK4
 165 - SR BIT 10 KR041-CM4
 174 - SET I/O FAST SHIFT KP051-DN4
 235 - OP IN PROCESS KR141 4KR021 4KT051 EB4
 205 - PROTECTED BFR KR061 4KR131 4KR151 EJ4
 223 + ROW CTR 0 KR021-FK4
 000 KR081 000
 104 - RST LTH KR051 4KF071 4KF131 4KF141 AB2
 124 + NULL KR111-AD4
 189 - SET SR BITS 1 AND 12 KR121-BB4
 217 + INSERT NULL KF051 4KG011 DB4
 511 + DELETE CSR BIT 9 KG021-DG4
 415 - INSERT CURSOR NORR KF071 4KR131 4KR161 4KG021 EF4

I/O CONTROL	
E.C.=HISTORY	B.POC#=3277
717473	
716959	
717492	
FRAME 01	KR071
DATE LAST EC	IBA CORP+SDD
08-05-72 717946	P.O.N. 1823100 001

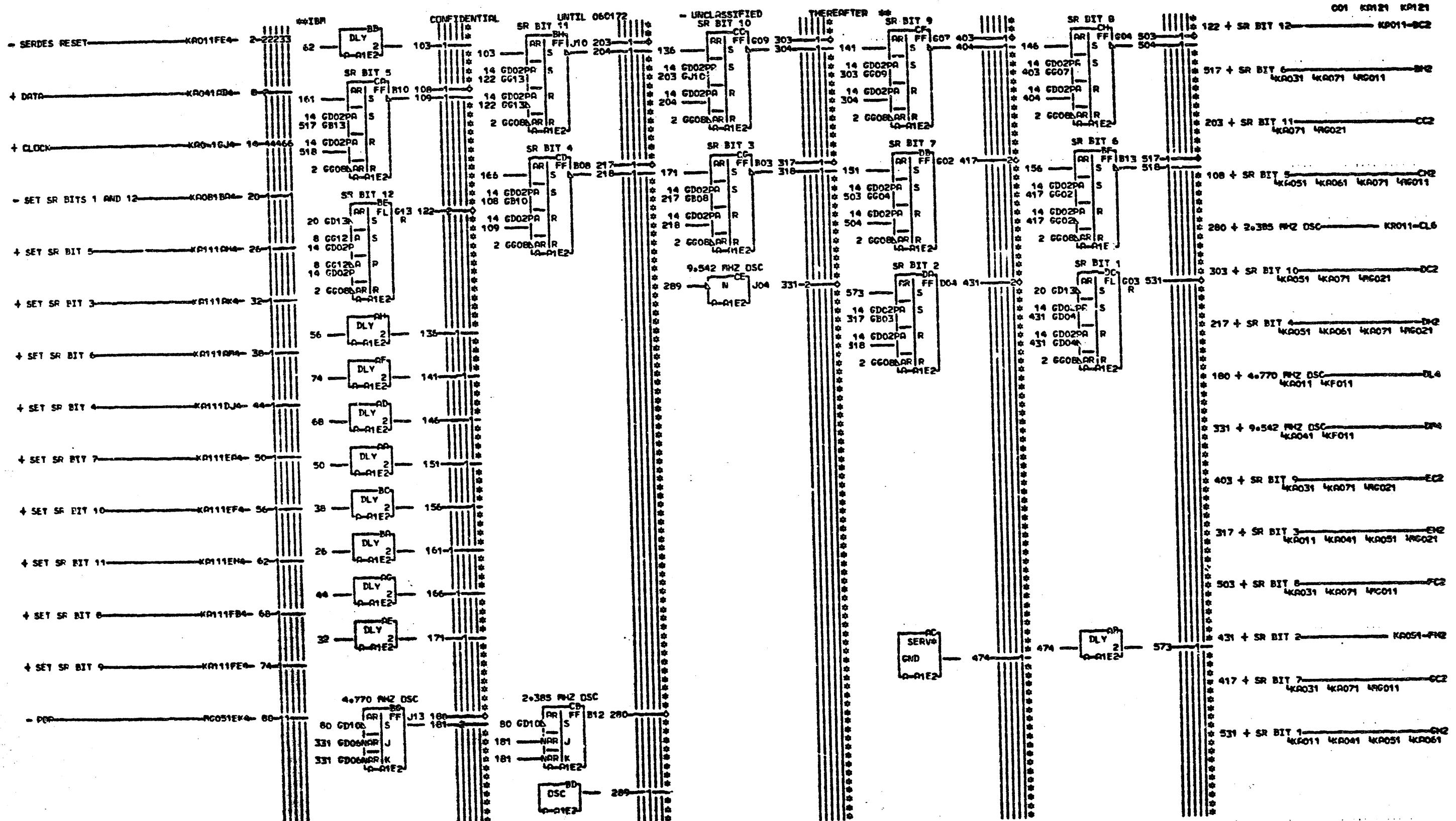


LNO. TYPE
A-A1E2 LS14

PAGE VER EC LEV
KA111 001 717946

EDGE COUNT	A-A1E2B05
26 RESISTOR	302 RESISTOR
A-A1E2J12	A-A1E2J07
144 RESISTOR	309 RESISTOR
A-A1E2D12	A-A1E2G06
151 RESISTOR	316 RESISTOR
A-A1E2E11	A-A1E2J11
172 RESISTOR	323 RESISTOR
A-A1E2T05	A-A1E2J09
237 RESISTOR	330 RESISTOR

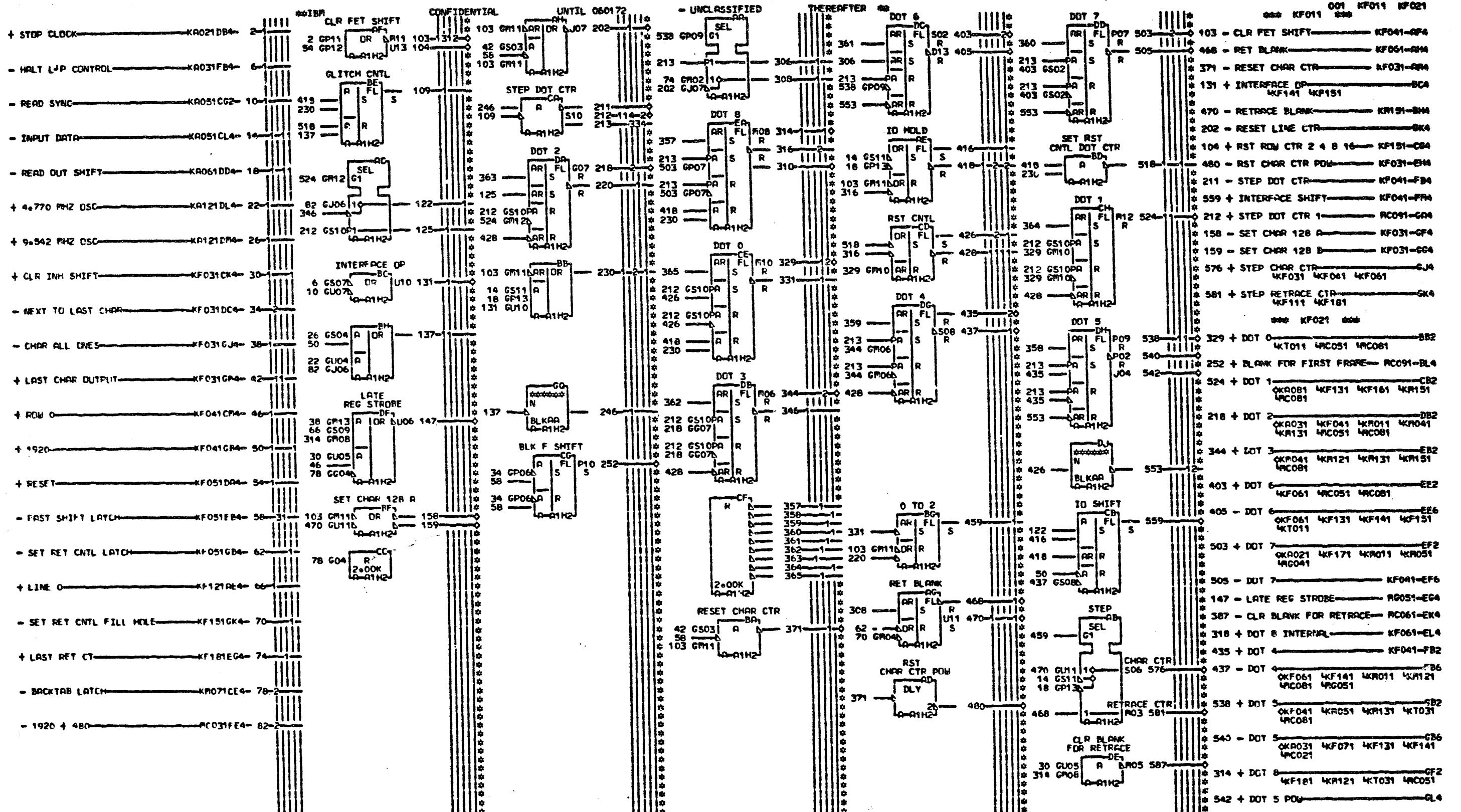
001	KA111	KA111
245	+ SET SR BIT 3	KA121-000
273	+ SET SR BIT 3	KA121-0K4
252	+ SET SR BIT 6	KA121-0K4
179	+ SWITCHED SV	KF201-BL2
160	- DATA TO CONTROL UNIT	KF201-CL4
338	+ SET SR BIT 4	KA121-DJ4
260	+ DATA FROM LINE RECEIVER	KA041-DL6
431	+ SET SR BIT 7	KA121-ER4
424	+ SET SR BIT 10	KA121-EF4
417	+ SET SR BIT 11	KA121-EM4
410	+ SET SR BIT 8	KA121-FB4
403	+ SET SR BIT 9	KA121-FE4
717473	- E-C HISTORY	B-PACH-3277
716959	FRAME	01 KA111
717492	DATE	LAST EC
08-05-72 717946	IBR CORP. INC.	001
001	001	001



LDC TYPE
A-A1E2 L514

PAGE VER FC LEV
KR121 001 717492

SERDES + SPECIAL CIRCUITS	
E.C. HISTORY	RACK 3277
717473	
716959	
FRAME 01	KR121
IBA CORP. INC.	
DATE LAST EC	
06-01-72 717492	
PoN 1623103	001

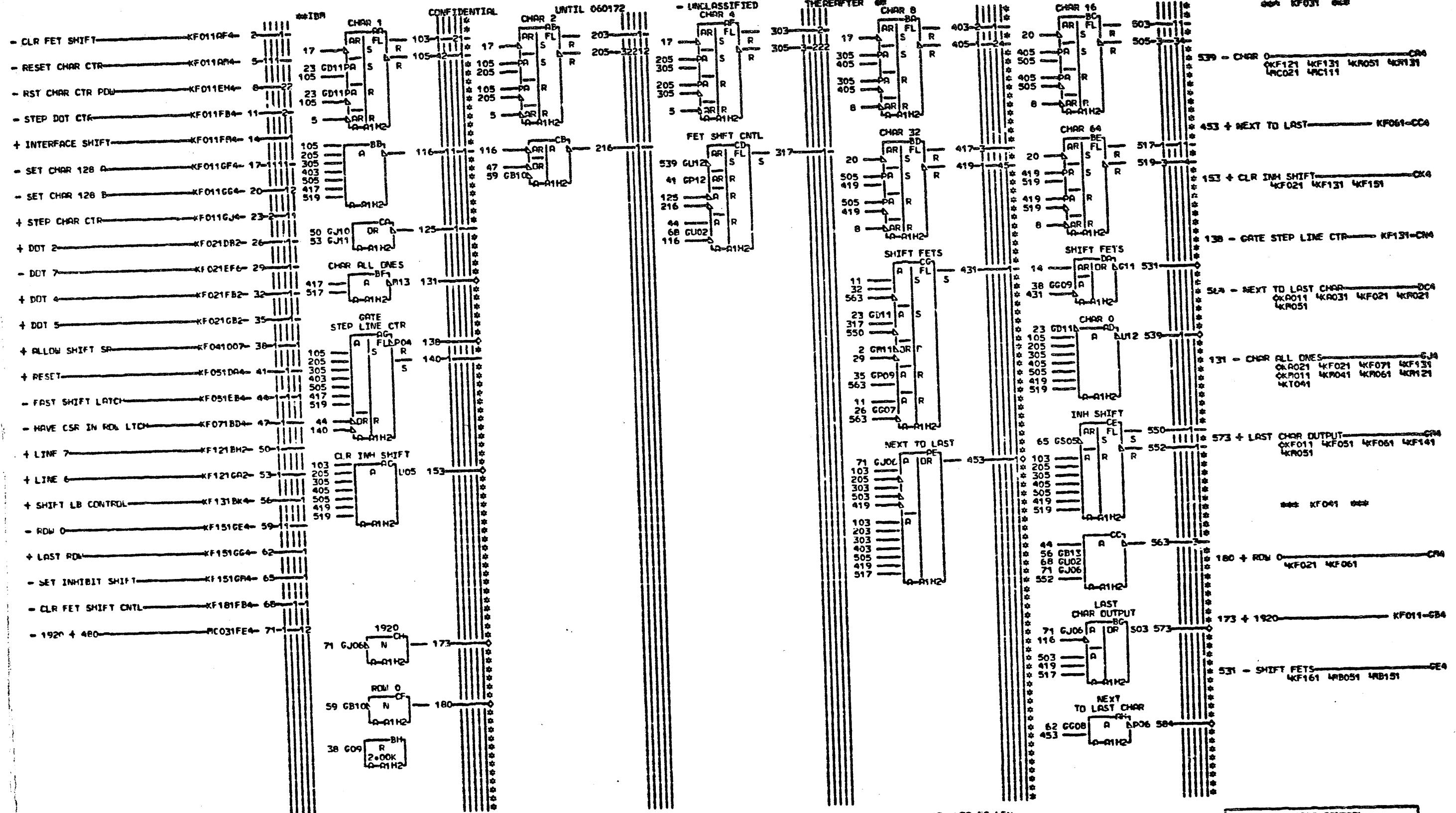


A-STR TO PN 1563740 EC 717946
B-SIM TO PN 1563741 EC 717946

LOC. TYPE
A-21 K2 9071

PAGE VER EC LEV
KF011 001 717946
KF021 001 717946

CLOCK AND STEP CONTROL	
—E.C.—HISTORY—B RACH 3277	
71 7473	FRAME 01 KF011
71 6959	IBA CORP. KN KF021
71 7492	Po.N. 1823105 001
DATE 06-05-72	LAST EC 717946



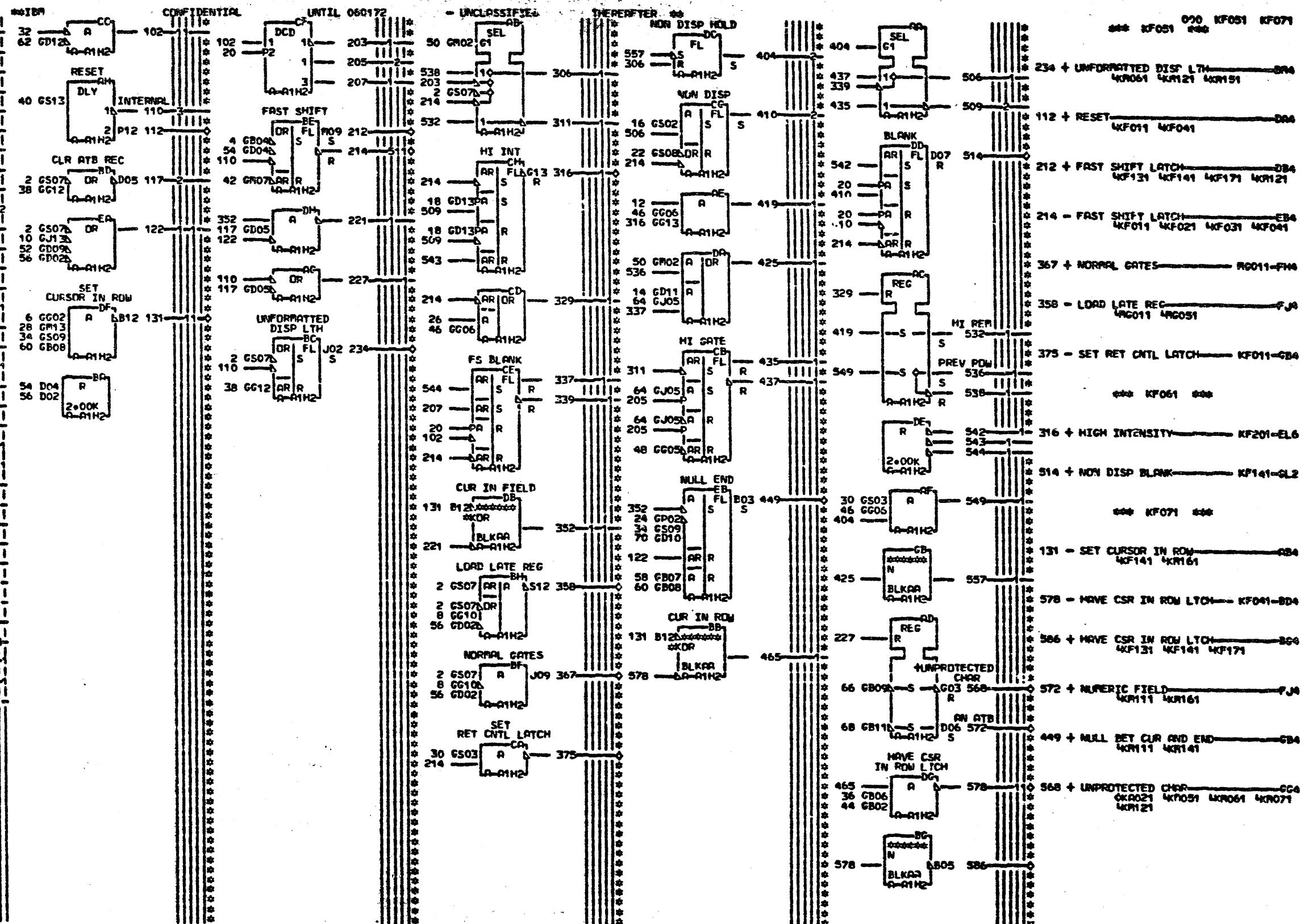
A-SIM TO PN 1563742 FC 717946

LOC. TYPE
A-9112 9071

PAGE VEP EC LEV
KF031 001 717946
KF041 000 717946

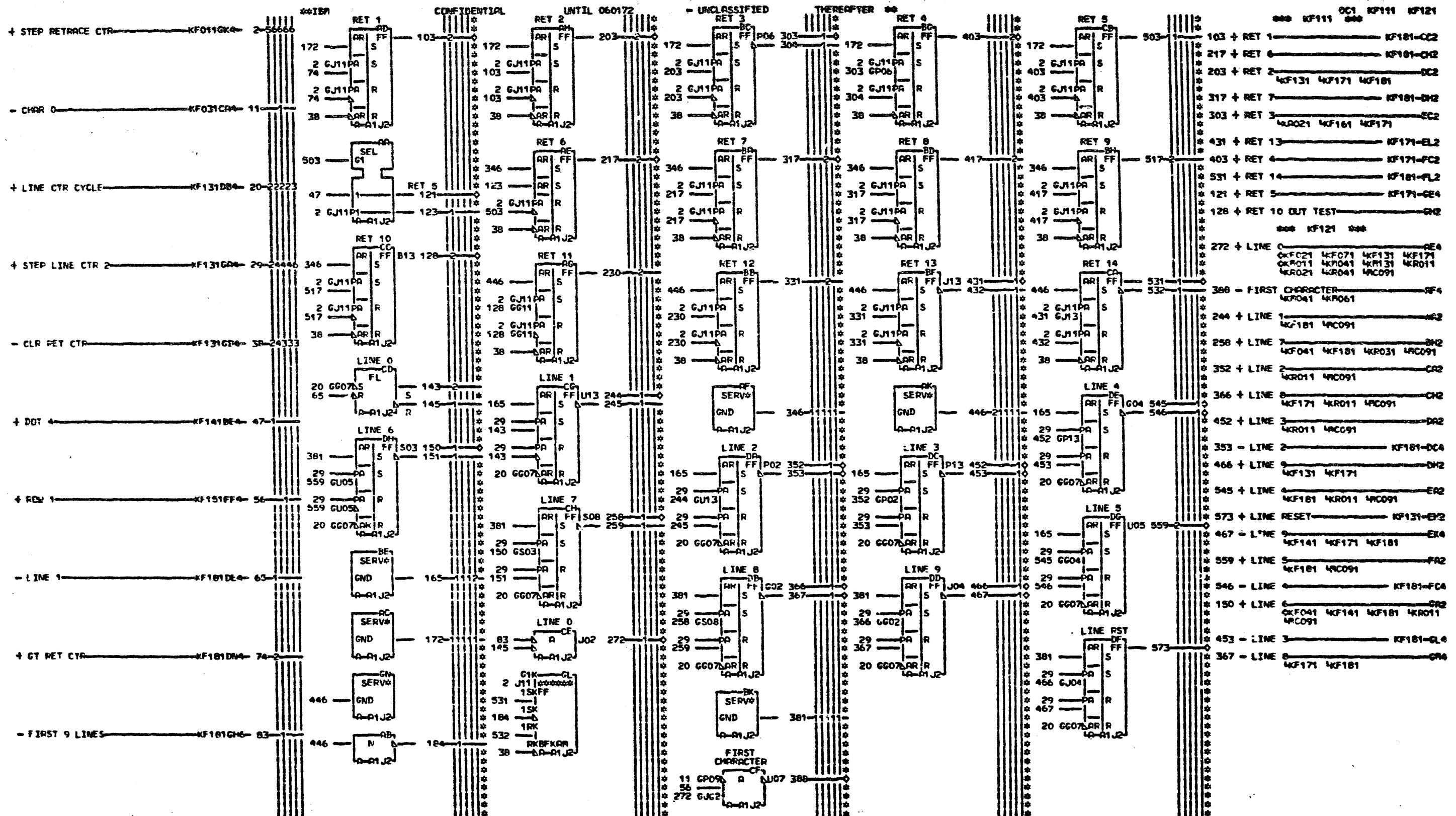
CLOCK AND STEP CONTROL	
—E.C.—HISTORY—	
71 7473	RACH 3277
71 6959	FRARE 01 KFO31
71 7942	IBR CORR.DRN KFO41
DATE LAST EC 08-05-72 717946	P.o.N. 1523412 001

- WRITE LATCH SET KF031FB4 2-24
 - SET 2ND FAST SHIFT KF071DR4 4
 - RST LTH KF081RS2 6
 + INSERT NULL KF081DB4 8
 - INSERT CURSOR NOR KF081EF4 10
 - RET BLANK KF011RB4 12
 + STEP CHAR CTR KF011EJ4 14
 + DOT 6 KF021EE2 16
 - DOT 6 KF021EEG 18
 + DOT 8 INTERNAL KF021EL4 20
 - DOT 4 KF021FB4 22
 - DOT 5 KF021GB4 24
 + NEXT TO LAST KF031CC4 26
 - CHAR ALL DYES KF031EJ4 28
 + LAST CHAR OUTPUT KF031GP4 30
 + ROW 0 KF041CP4 32
 + LINE 0 KF121RE4 34
 + LINE CTR CYCLE KF131DR4 36
 + CLR ATB REG KF131DD4 38
 + RESET KF131DK4 40
 - END SCREEN INPUT KF151CJ4 42
 - CND ROW CTR CLR KF151DL4 44
 + LAST LINE KF171DB4 46
 - RETRACE 6 KF181BG4 48
 + LAST RET CT KF181EG4 50
 - P. Q INSRT BIT 9 KF011RD4 52
 - SET KB FAST SHIFT KF041GU4 54
 - LOAD LATE REG GT KF131BM4 56
 + FETS OUT BIT 8 FB141BD4 58
 + FETS OUT BIT 9 FB141CB4 60
 - BIT 8 FROM LINE BUFFER PC021BL4 62
 + NON FIS OR HI INTEN PC081GB4 64
 - HTTB REG BIT 2 PG031CA4 66
 - ATTB REG BIT 3 PG031CB4 68
 + NULL IN FETS PG041ER4 70



KF051
KF071
000

CLOCK AND STEP CONTROL		
E-C HISTORY	B-PAC-3277	
717473		
716959		
717492		
DATE 08-05-72	LAST EC 717946	FRM 01 KF051
IBR CORP, INC.		KF071
P.O. No. 1823118		000

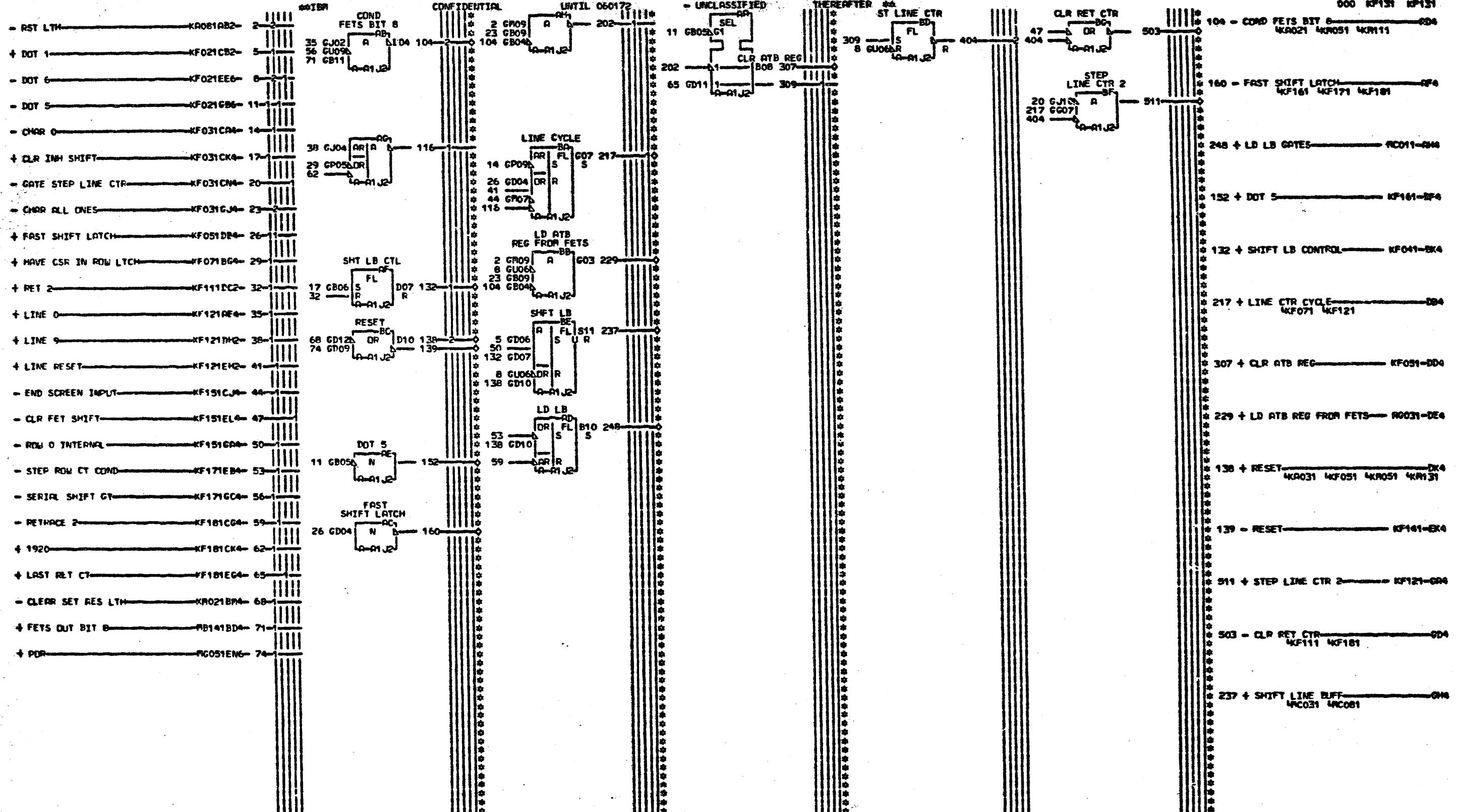


ReSTR TO PN 1563746 EC 717946

LOC# TYPE
A-A1J2 9067

PAGE VER EC LEV
KF111 000 717492
KF121 001 717946

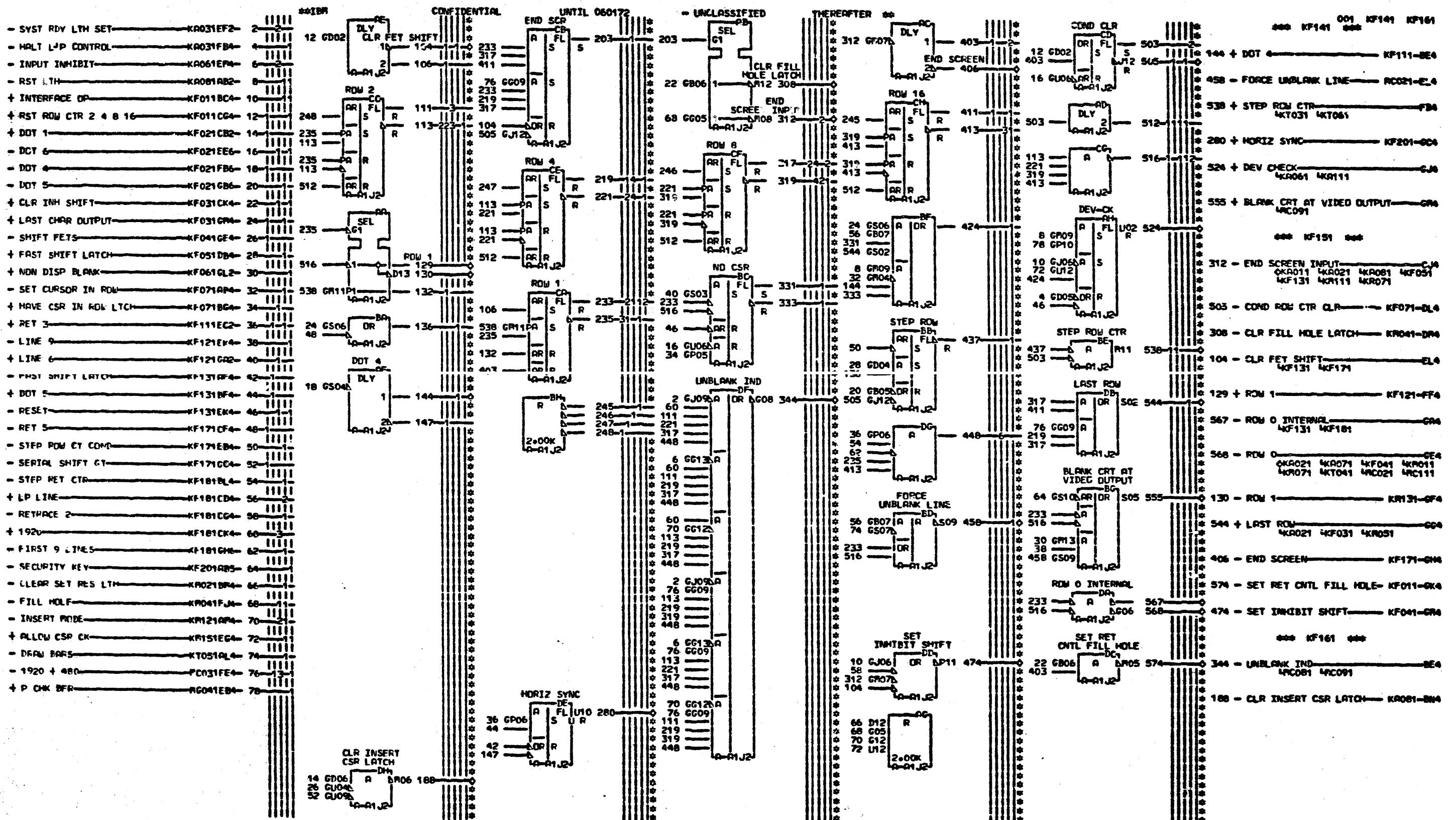
DISPLAY CONTROL	
E-C-HISTORY	B-MDN-3277
717473	717492
FRAME 01	KF111
DATE LAST EC	IPN CORP KN
08-09-72 717946	PN# 1823123
001	001



PAGE VER EC REV
KF131 000 717946

KF131
KF131
.00

DISPLAY CONTROL	
E-C HISTORY	ROCH 3277
717473	
717492	
FROM	01
IBR CORP. INC.	KF131
DATE LAST EC	08-05-72 717946
P.O. NO.	1823127
	000

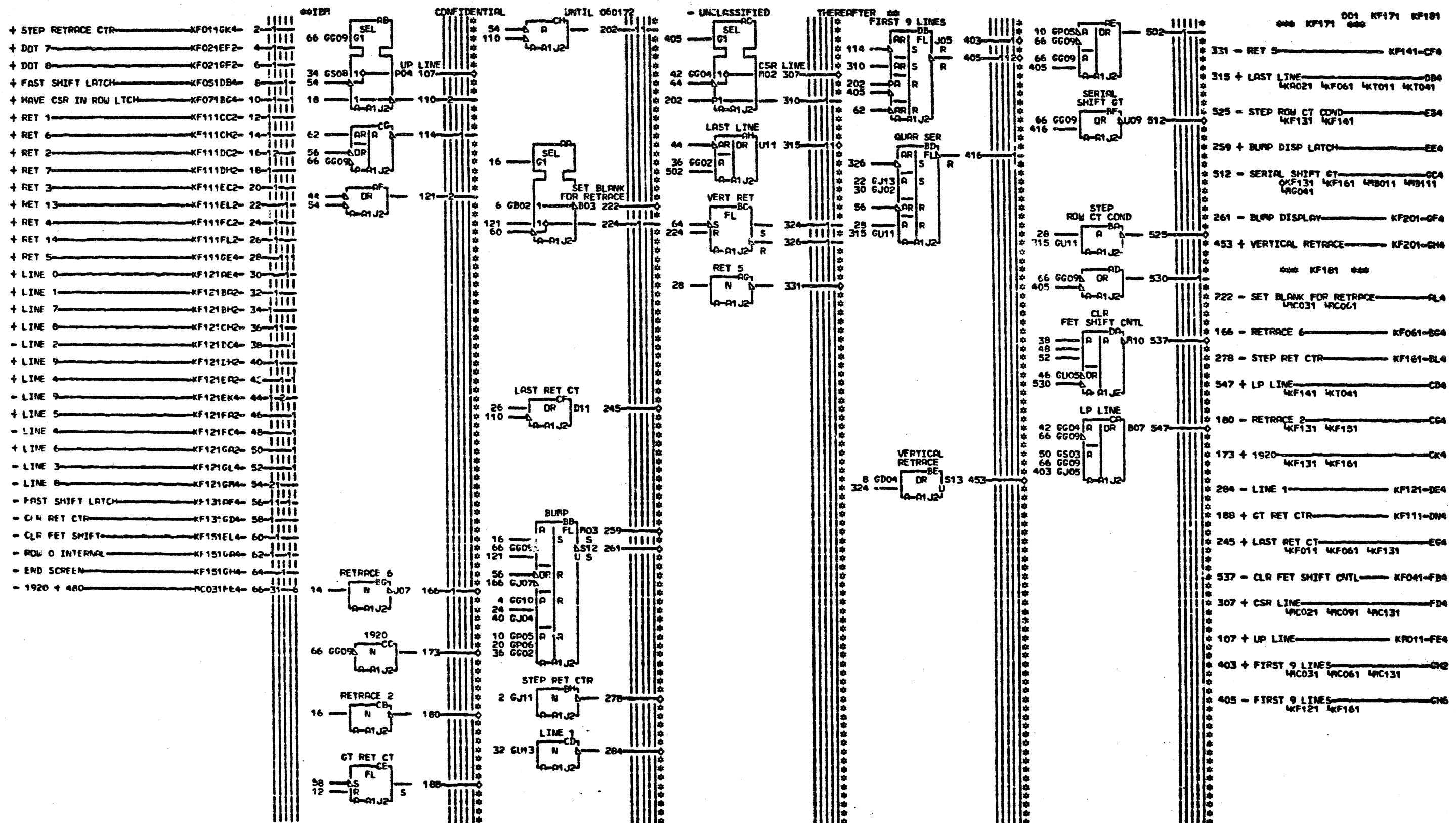


**A-SIM TO PN 1563750 FC 717492
B-SIM TO PN 1563751 EC 717946**

LOC. TYPE
R-A1JR 9067

PAGE	VER	EC	LEV
KF141	001	71	7092
KF151	001	71	7946
KF161	002	71	7947

DISPLAY CONTROL	
-E.C.-HISTORY-B- ARCH.3277	
717473	FRAME 01 KF191
716959	ISBN CORP,KN KF191
717492	P.No 1823132 001
DATE LAST EC	
08-05-72 717946	



A-SIM TO PN 1563753 EC 717946
B-SIM TO PN 1563754 EC 717473

LOC. TYPE
A-A1J2 9067

PAGE VER EC LEV
KF171 001 717946
KF181 001 717473

DISPLAY CONTROL	
E-C HISTORY	RACH-3277
717473	717492
FRAME 01	KF171
DATE 08-05-72	LAST EC 717946
IBM CORP-KN	KF181
PoN 1623139	001

卷之三

CONFIDENTIAL

UNTIL 06/01/22

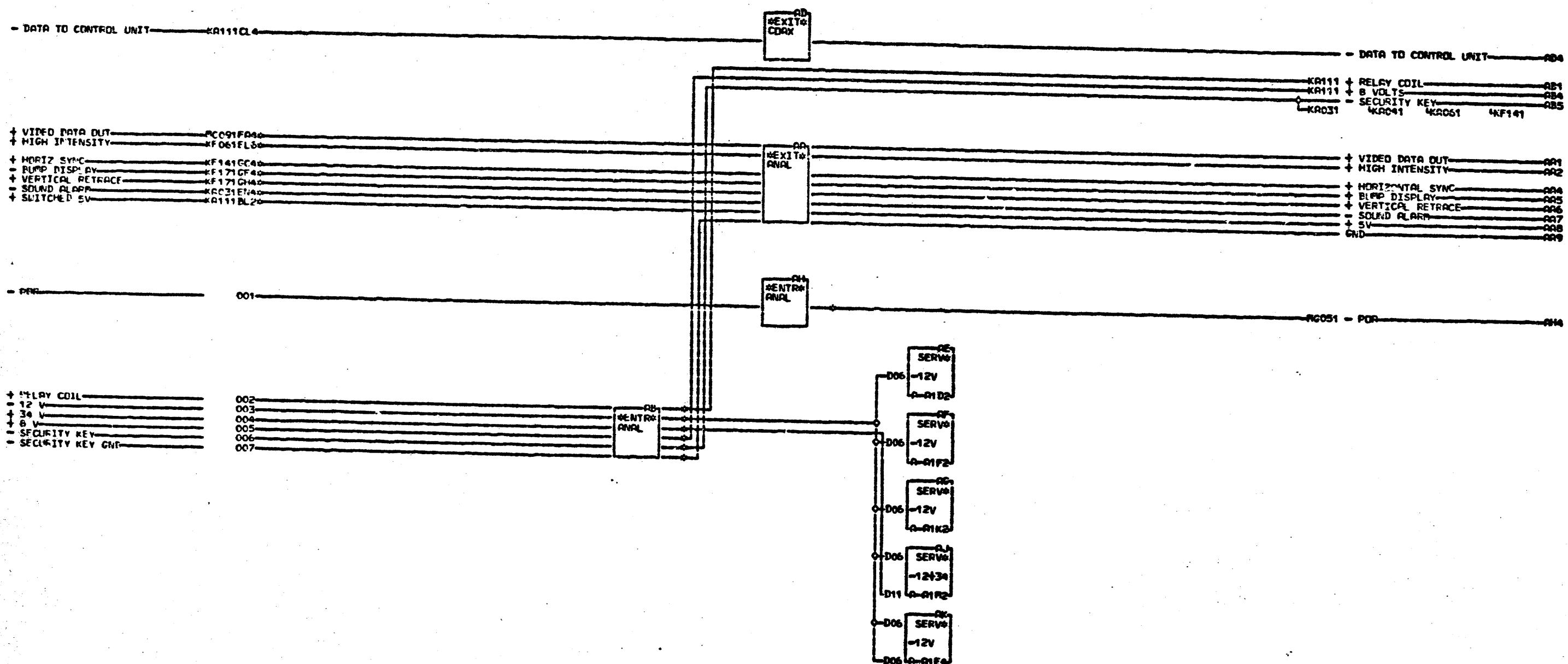
- UNCLASSIFIED

THEREAFTER

- UNCLASSIFIED

THEREAFTER \$

001 KP201

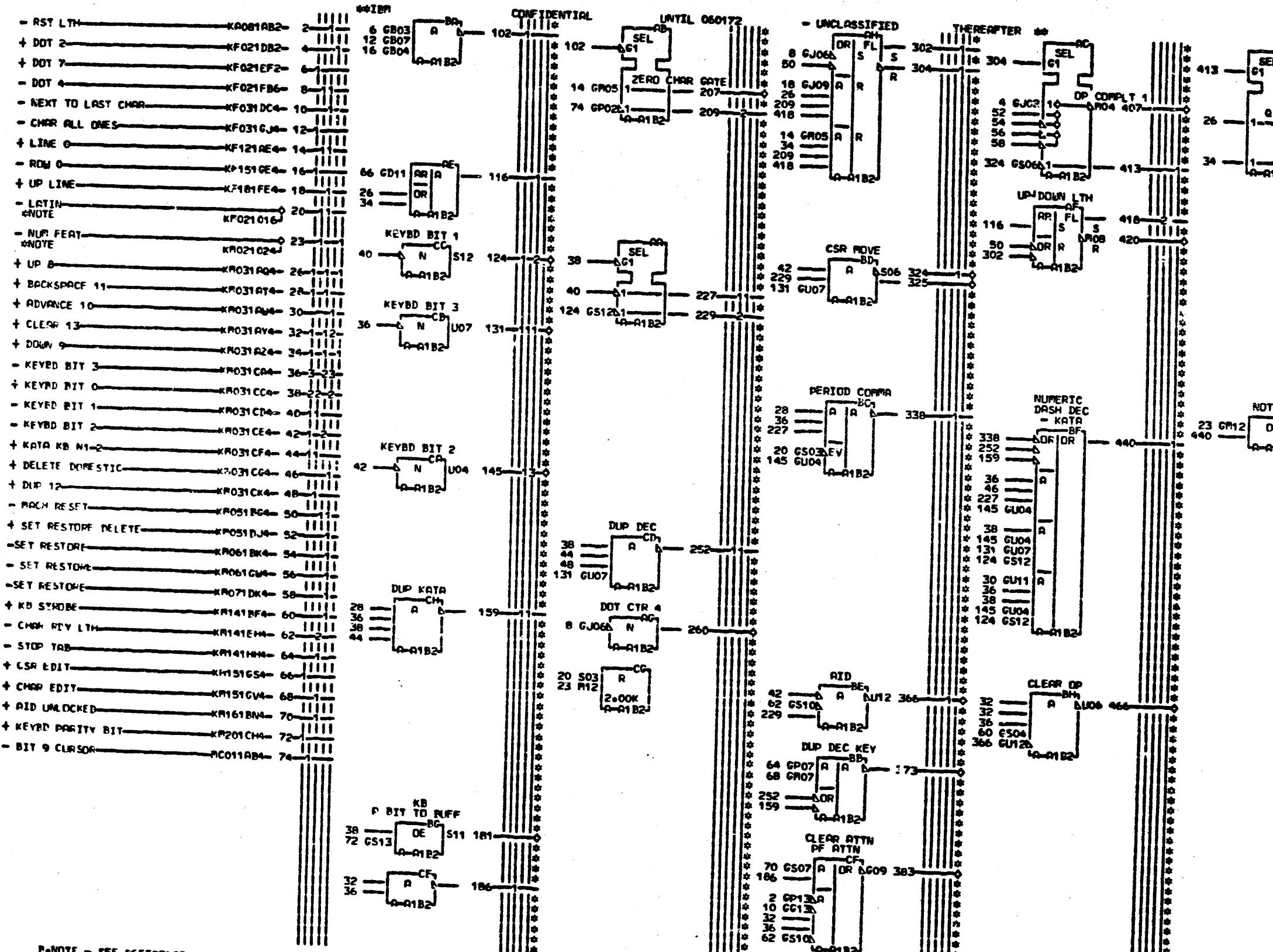


KR031EN4	01A-A1H6E04	RBS	A-A1H6E04
01A-A1K6D04	KF171G4	RBE	A-A1J6B04
KA111RL2	01A-A1J6B04	01A-A1H6C04	
01A-A1H6B02	RC011FA4	RAM	A-A1K6B04
KF061EL6	01A-A1H6C04		
01A-A1J6E02	PB1 A-01J6E04		
KF141GC4	PB2 A-01J6C04		
01A-A1J6D04	PB3 A-01K6B04		
KF171GF4	PB4 A-01J6D04		

1 E-9 TO PN 1563755 EC 717946

LOC. TYPE

CONNECTOR PAGE		
E.C. HISTORY		RACH-3277
717473	716959	FRAME 01
717492		IBM CORP. SDD
DATE 08-03-72	LST 717946	P.N. 1523146

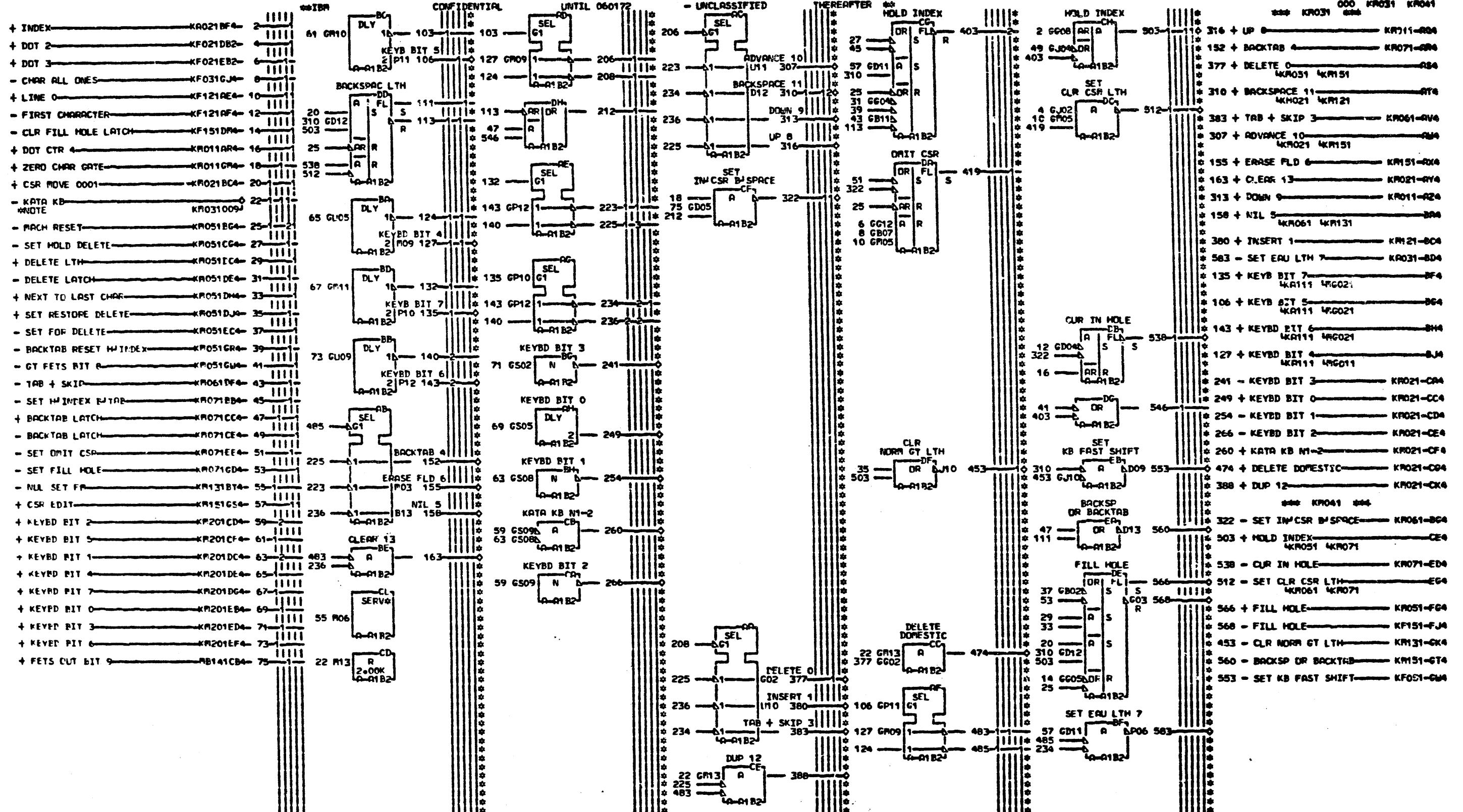


**NOTE - SEE REFERENCE PAGE
22-01 FOR KEYBOARD FEATURE
JUMPERS**

LOC. TYPE
A-A1B2 9069

PAGE VER FC LEV
KPO11 000 717966
KPO21 000 717966

KEYBOARD CONTROLS -1			
E.C. HISTORY		RICH-3277	
717473	716959	FRAME	01 K9019
717492		IBM CORP.KN	K9021
DATE	LAST EC	P.O.N.	1623152
08-05-72	717946		000

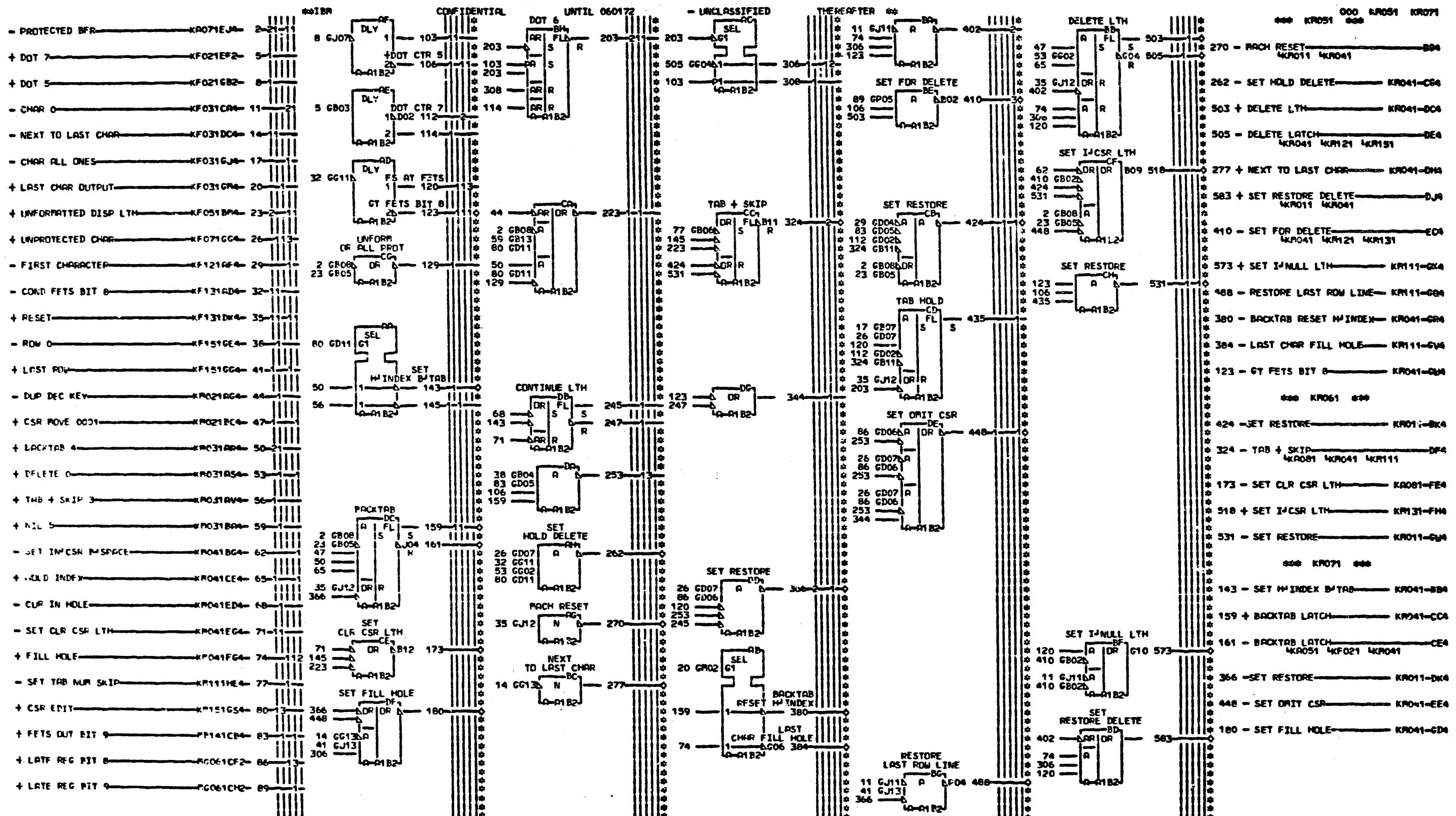


A. PICTF SEE REFERENCE PAGE
Z2101 FOR KEYBOARD FEATURE
JUMPERS

LDC. TYPE
A-A1 B2 9069

PAGE VER EC LF
KR031 000 71794
KR041 000 71794

KEYBOARD CONTROLS J-1	
—ECo-HISTORY—	
717473	B PAGE No 3277
717692	FRAME 01
DATE 08-05-72	LST EC 717946
IBR CORP o KN	
P.o.No 1823756	



LOC. TYPE
P-91 B2 9069

PAGE VER EC LI
KPA51 000 71794
KPA61 000 71794
KPA71 000 71794

KEYBOARD CONTROLS #1

E.C. HISTORY **SEARCH: 3277**

71 7473 **FRAME 01**

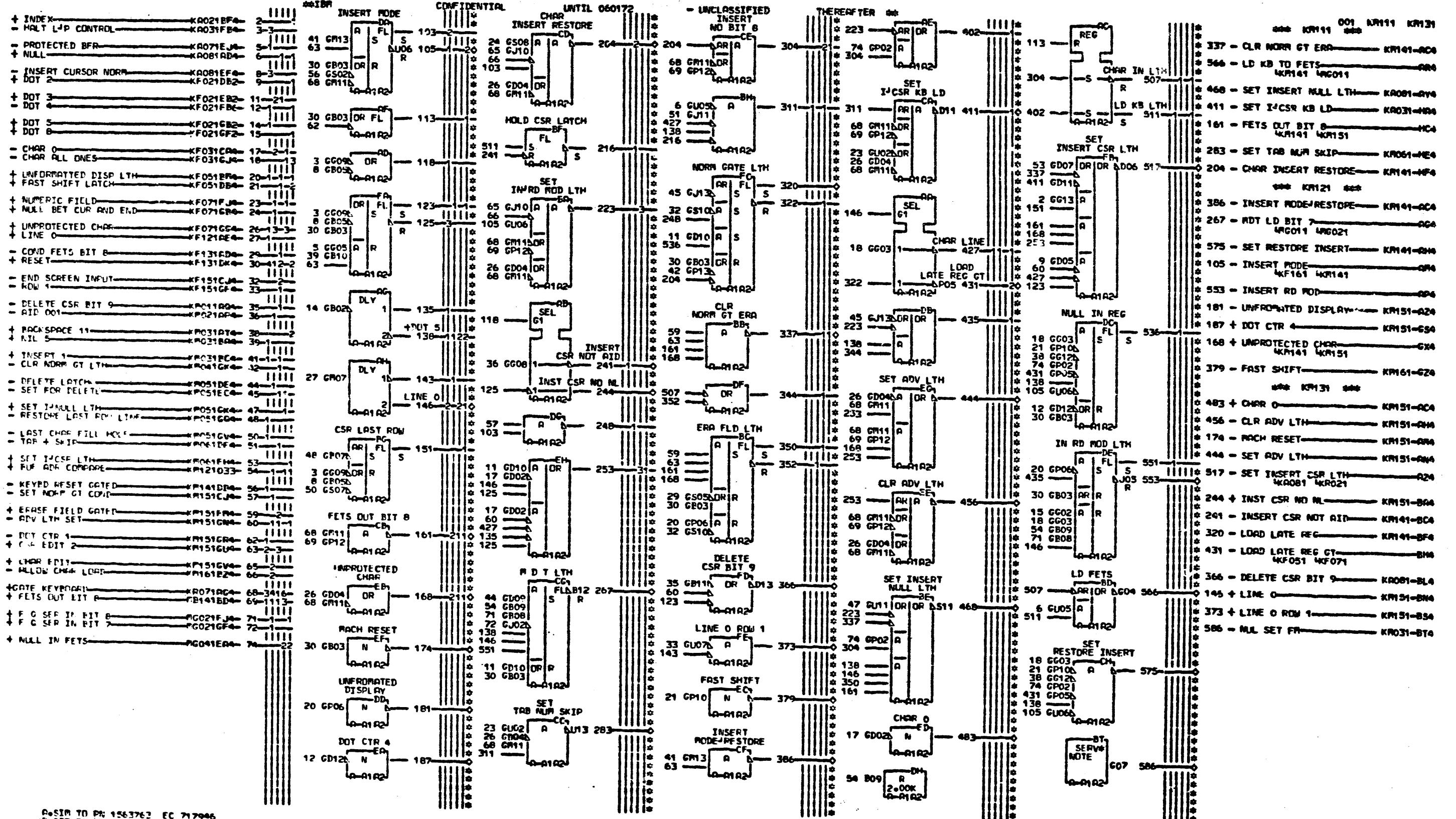
71 6959

71 7492

DATE LAST EC

08-03-72 71 7946

PoNo 1823758



A-SIM TO PN 1563762 EC 717946
B-SIM TO PN 1563764 EC 717946
COMUTE SEE REFERENCE PAGE 22102
IF RFO AR3553 INSTALL FPC
SIM TO PN 1563765 EC 717946

KM191

KM139

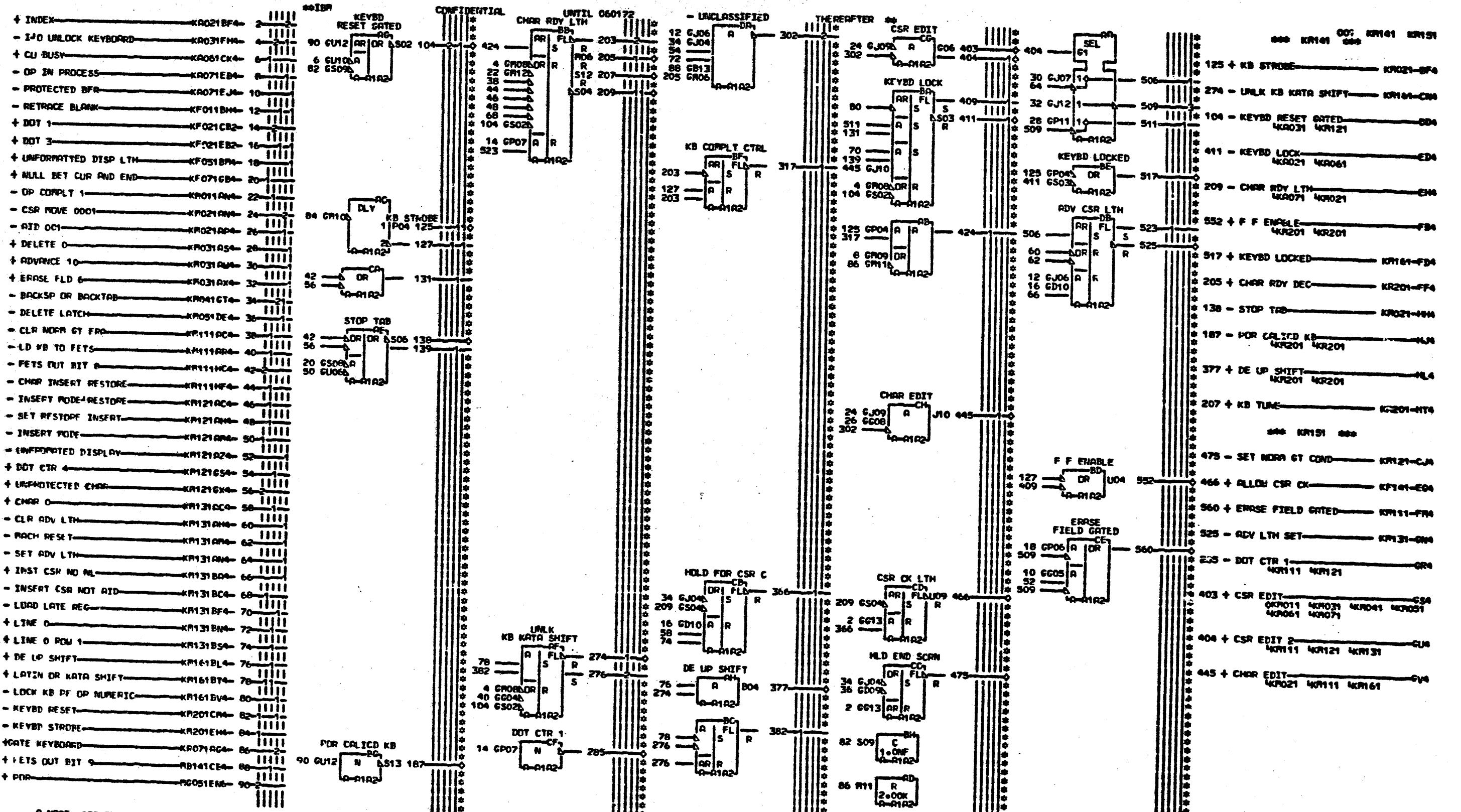
88

LOC. TYPE
A-61 R2 9072

PAGE 1 OF 1
KRI111 001 717946
KRI21 001 717946
KRM31 001 717946

KEYBOARD CONTROLS J2

E.C. HISTORY B. MARCH 3277
717473
716959
717492
FRAME 01
DATE LOST EC IBM CORP. KN
08-03-72 717946
Po. No. 1823761

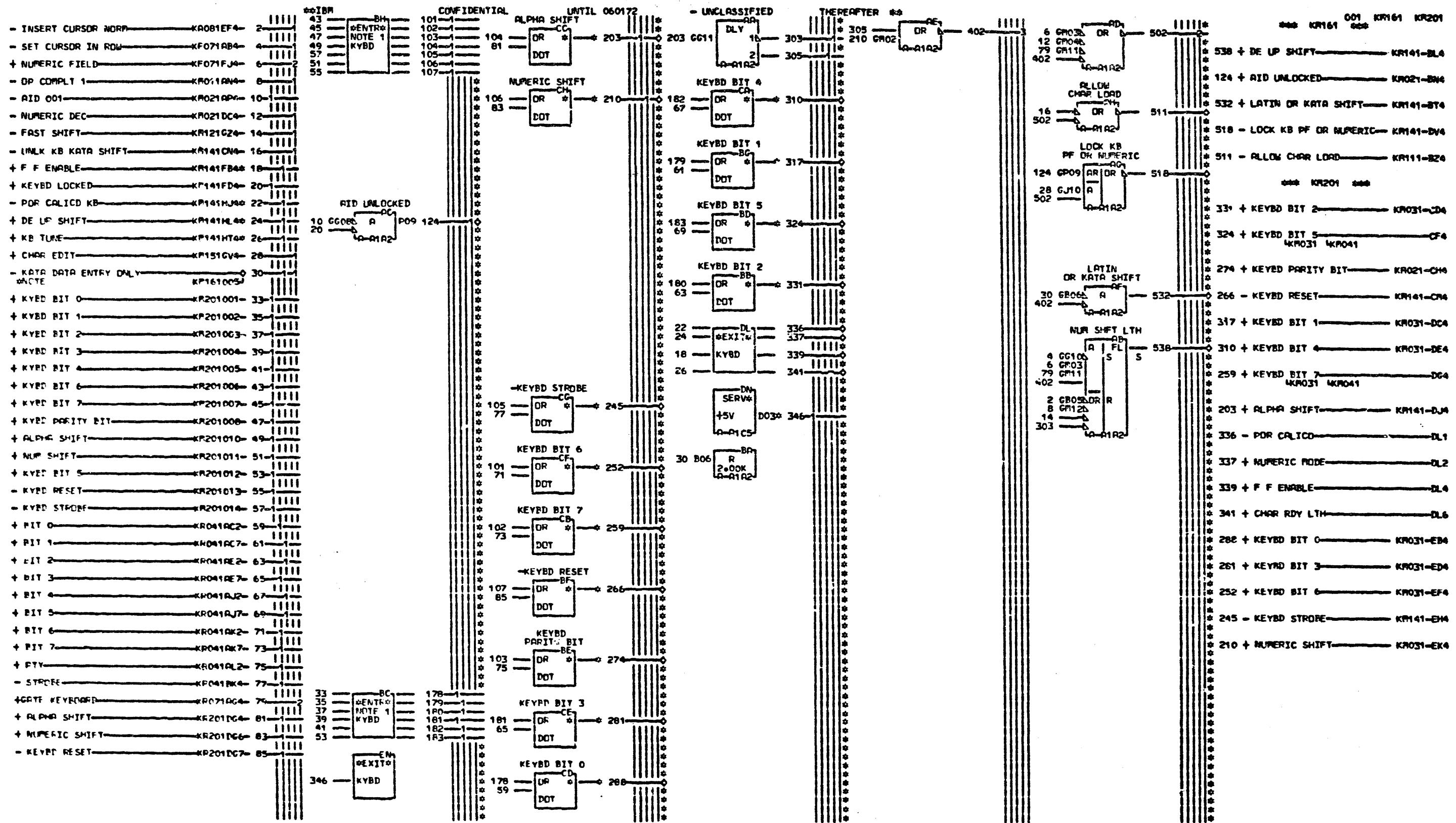


A. NOTE SEE REFERENCE PAGE
22101 FOR KEYBOARD FEATURE
JUMPERS.
SIR TO PN 1563766 EC 717946

LOC. TYPE
0-1112 9072

PRICE VEP EC LFV
KPT41 001 717946
KPT51 000 717946

KEYBOARD CONTROLS J2	
LOGIC INTERFACE	
E.C.-HISTORY	RACH 3277
717473	FRAME 01 KR161
716959	IBR CORD K8 KR151
717942	P/N 1823766 001
DATE 05-05-72	LAST EC 717946



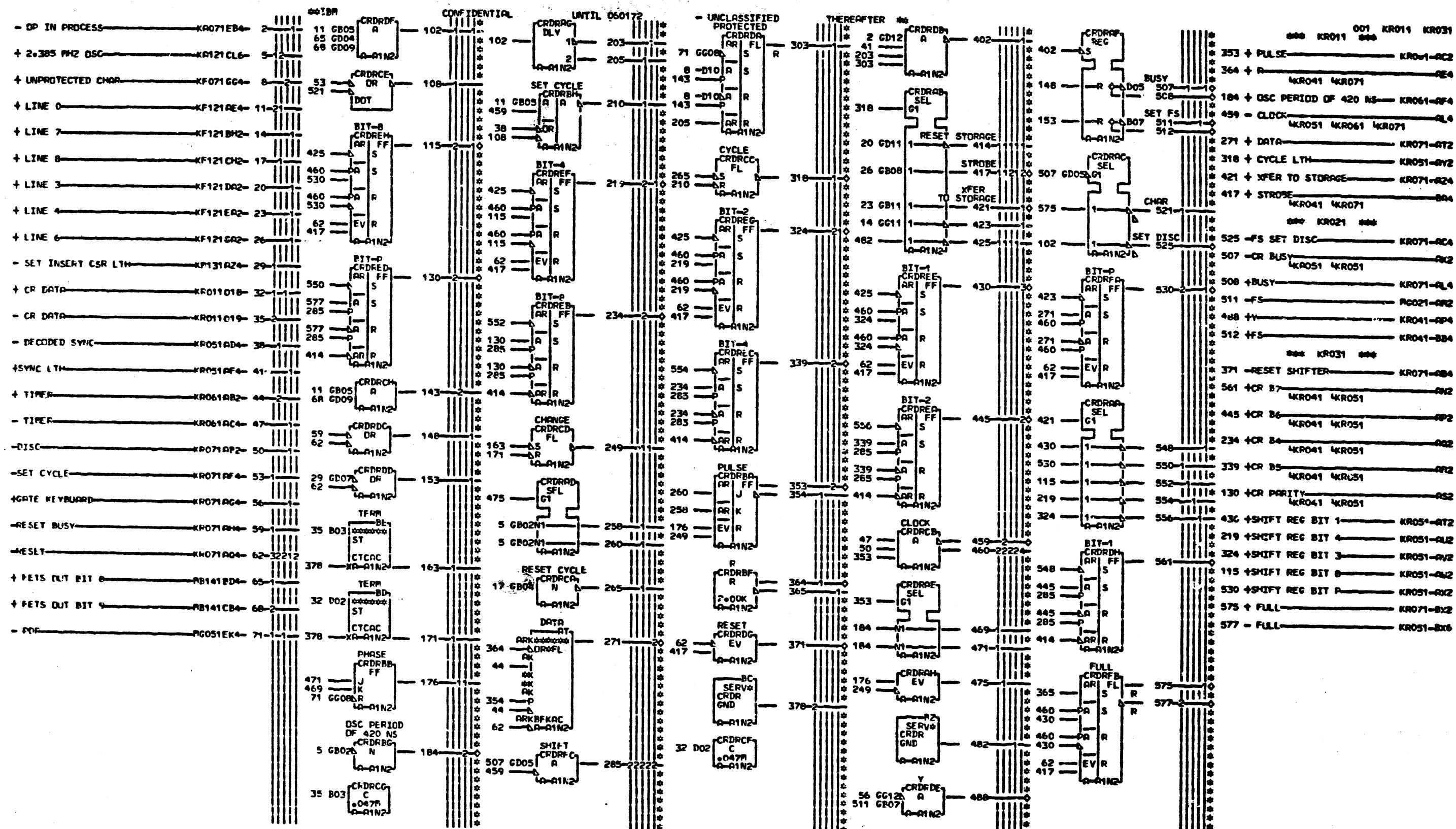
A. SIM TO PN 1563768 FC 717946
B. NOTE 1 21 SOCKET FDF KYED
WJD CAFI REAFF.
SIM TO PN 1563769 EC 717946

EDGE CNVN.	01A-A1C6P02	324 A-A1B6D04
18 A-A1E6L02	252 A-C1B6L04	331 A-A1B6A04
22 A-A1C6R02	259 A-C1C6A04	346 A-A1C6C02
24 A-A1R6C02	266 A-C1C6D04	
26 A-A1C6E02	01A-A1H6B04	
203 A-A1R6D02	274 A-C1C6E04	
01A-A1L6P02	281 A-A1B6E04	
210 A-A1B6P02	288 A-A1R6F04	
01A-A1L6F02	310 A-A1B6C04	
245 A-A1C6C04	317 A-C1R6E04	

LINC. TYPE
APR 1982 9072

ORCE VER EC LEV
KR161 001 717946
KR201 001 717946

KEYBOARD CONTROLS #2	
LOGIC INTERFACE	
E.C. HISTORY	
717473	RACH#3277
716959	FRAME 01 KR16
717452	IBM CORP/KH KR20
DATE 08-05-72	LAST EC 717946
P.O. No. 1824193	001



LOC. TYP
A-91 N2 222

PAGE VER EC LEV
KRO11 001 717492
KRO21 001 717946
KRO31 031 717492

CARD READER

-E.C.-HISTORY- 3 PACH. 3277

717473
716959
717492

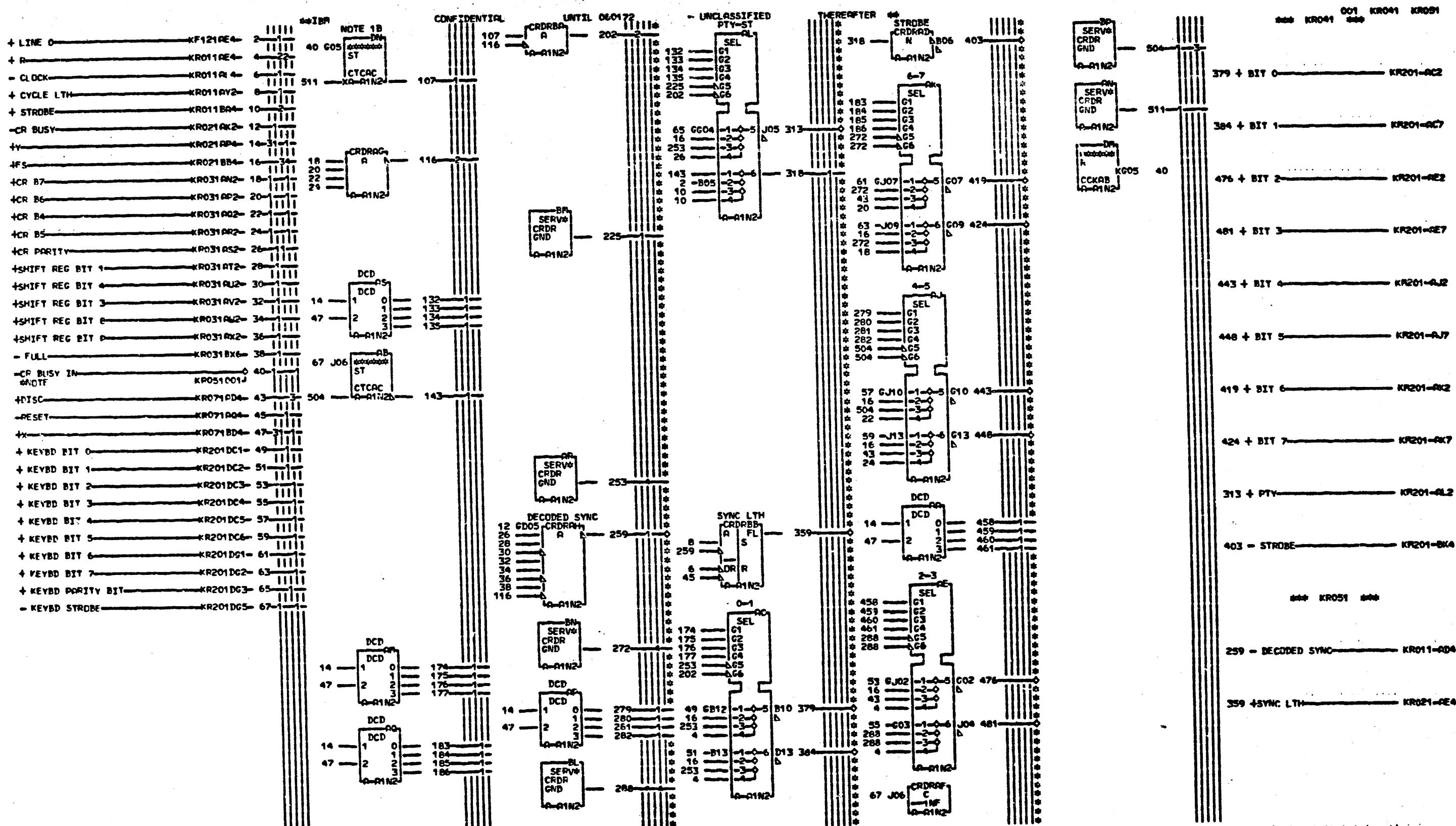
FRAME 01

IBM CORP. 5DD

P.o.No. 1823769

DATE LAST EC

03-05-72 717946

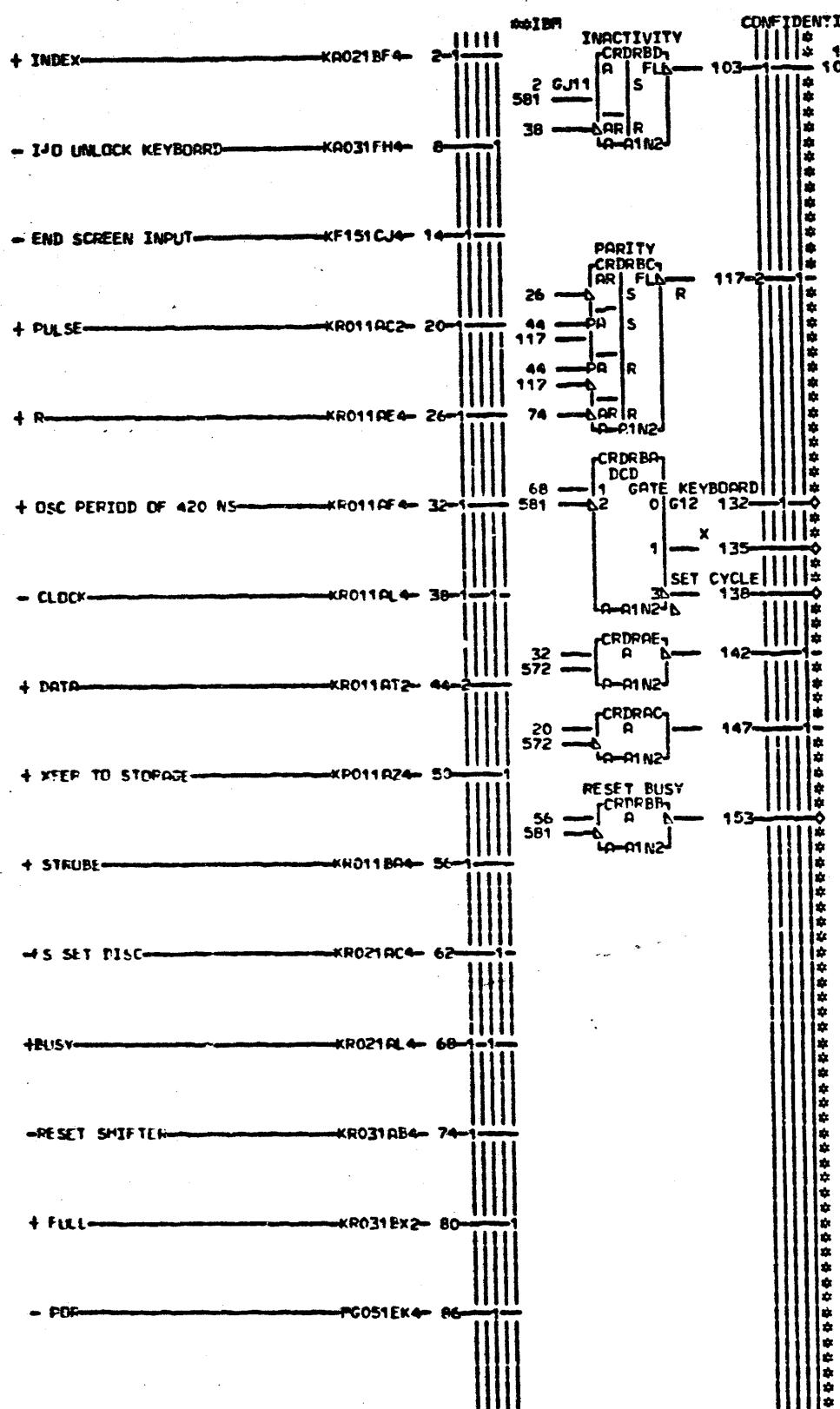


NOTE SEE REFERENCE PAGE
22101 FOR CARD READER
FFATIRE JURER

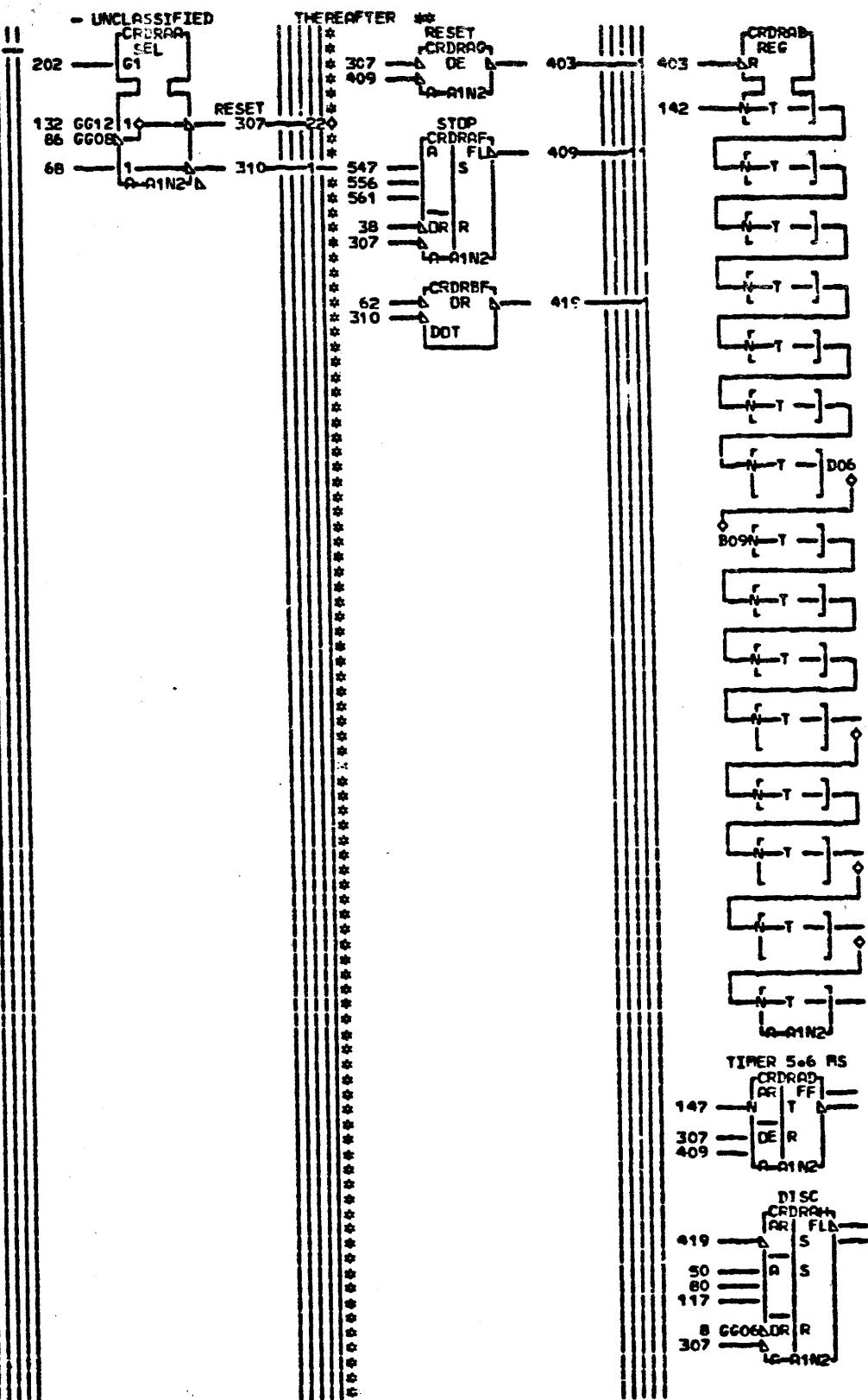
LOC. TYPE
A-9142 2229

PAGE VER EC LEV
KR041 001 717492
KRCY1 001 717492

CARD READER	
E.C. HISTORY	PCMCIA277
717473	FRAM 01
716959	
DATE LAST EC	IBM CORP. SDD
06-01-72 717492	PoN 1823770



INITIAL UNTIL 060172
14 6J120 A] 202-
103 - A-81N2]



LOC. TYPE
R-21 N2 2229

PAGF VER EC LEV
KR061 001 717492
KR071 001 717946

CARD READER	
-E.C.-HISTORY-->	
717473	RACH 3277
71E959	FRAME 01 KRO61
717492	IBM CORP. KRO71
DATE 08-05-72	LAST EC 717946
P.o.N. 1232771 001	

IBM

CONFIDENTIAL

UNTIL 060172

- UNCLASSIFIED

THEREAFTER

001 KR201

+ KYBD BIT 0
+ KYBD BIT 1
+ KYBD BIT 2
+ KYBD BIT 3
+ KYBD BIT 4
+ KYBD BIT 5

001
002
003
004
005
006

DC
#ENTR#
CRDR 1
KYBD

KR041 + KEYBD BIT 0 DC1
KR041 + KEYBD BIT 1 DC2
KR041 + KEYBD BIT 2 DC3
KR041 + KEYBD BIT 3 DC4
KR041 + KEYBD BIT 4 DC5
KR041 + KEYBD BIT 5 DC6

+ KYBD BIT 6
+ KYBD BIT 7
+ KYBD PARITY BIT
+ ALPHA SHIFT
- KEYED STROBE
+ NUMERIC SHIFT
- KYBD RESET

007
008
009
010
011
012
013

DG
#ENTR#
CRDR 1
KYBD

KR041 + KEYBD BIT 6 DG1
KR041 + KEYBD BIT 7 DG2
KR041 + KEYED PARITY BIT DG3
KM201 + ALPHA SHIFT DG4
KR041 - KEYED STROBE DG5
KR201 + NUMERIC SHIFT DG6
KR201 - KEYBD RESET DG7

- POR CALICO KB
+ DE UP SHIFT

KR141H40
KR141HL40

DK

- POR CALICO DK1
+ DE UP SHIFT DK2

+ FF ENABLE

KR141FF40

DK

+ FF ENABLE DK4

+ CHRR RDY DEC

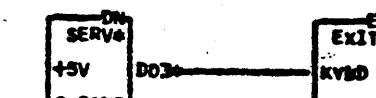
KR141FF40

DK

+ SOUND KYBD DK6

NOTE 1 24 SOCKET FOR KYBD
WITH CARD READER

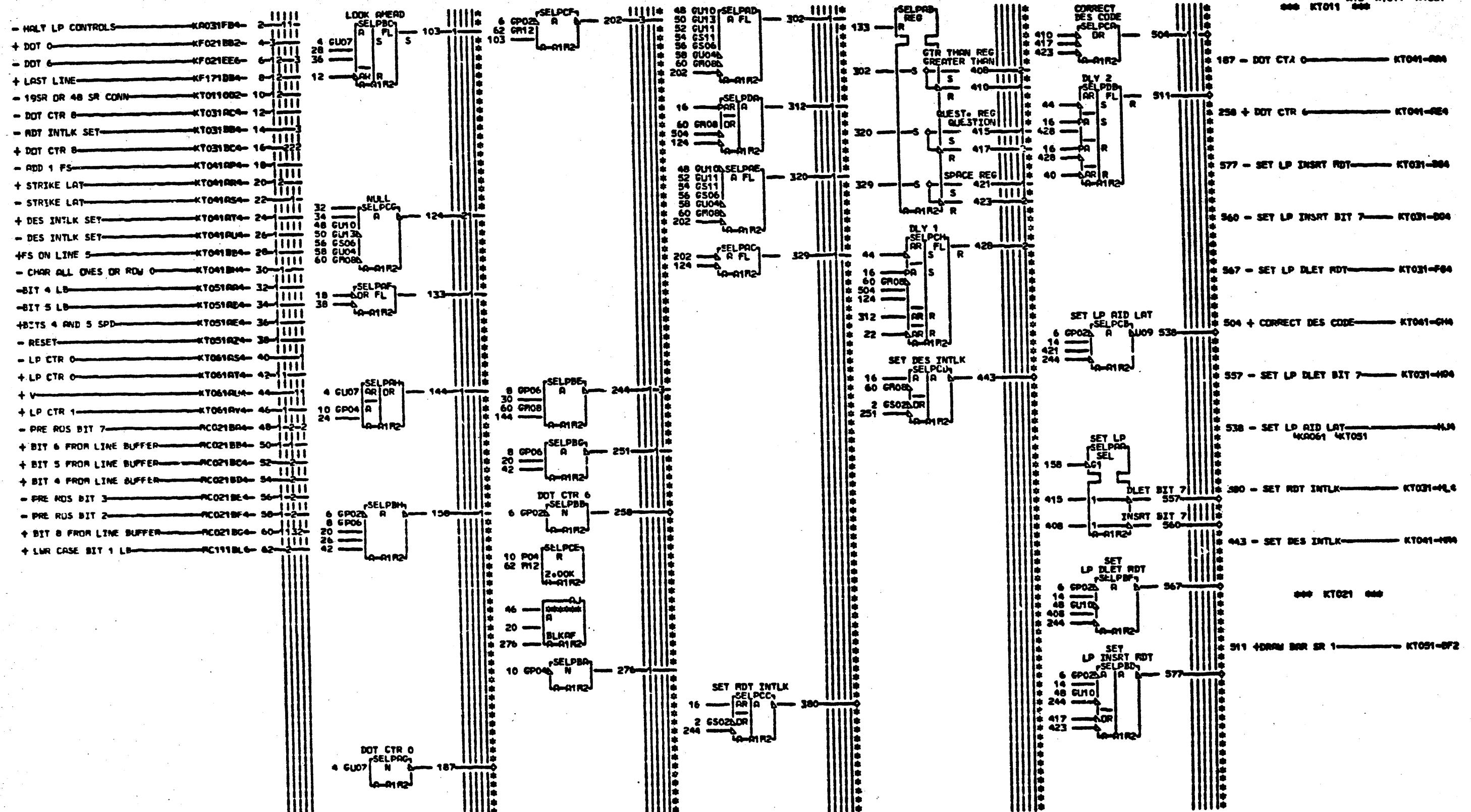
KR141FB4 DC2 A-R1L6C04 01A-R1R6E02
01A-R1R6D02 DC3 A-R1L6D04 DNA A-R1N6A02
KR141FF4 DC4 A-R1L6E04
01A-R1N6C02 DC5 A-R1R6A04
KR141H40 DC6 A-R1R6B04
01A-R1R6D02 DG1 A-R1R6C04
KR141H40 DG2 A-R1R6D04
01A-R1L6D02 DC3 A-R1R6E04
DG1 A-R1L6B04 DC5 A-R1N6A04



LOC. TYPE

KEYBOARD INTERFACE FOR CR	
E-Co-HISTORY	SEARCH 3277
717473	
FRAME	01
DATE LAST EC	01
02-18-72 716059	P.N. 1823772

001

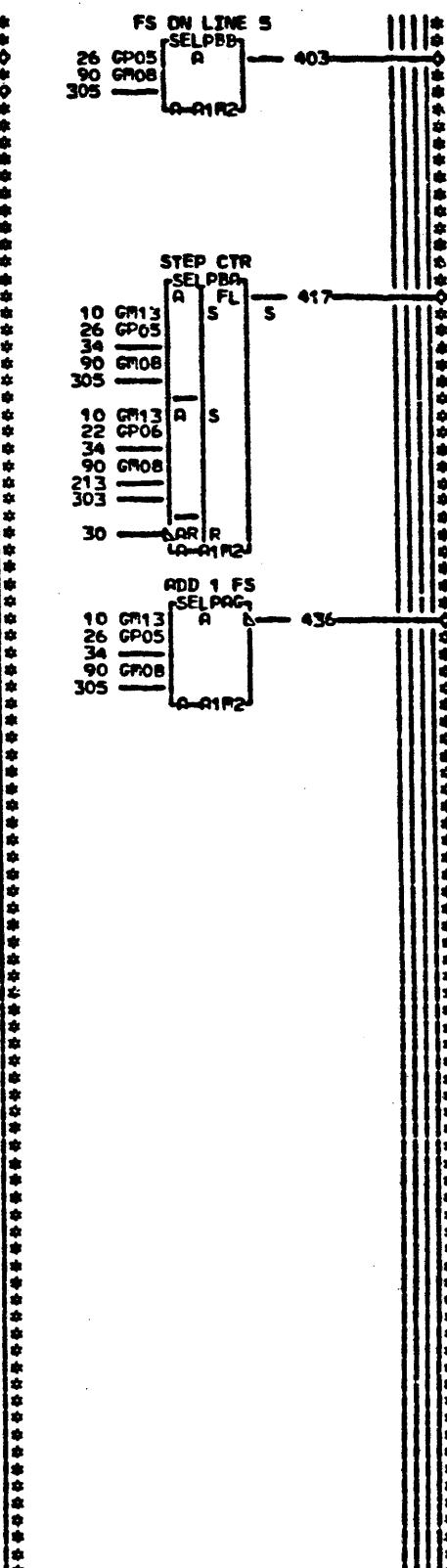
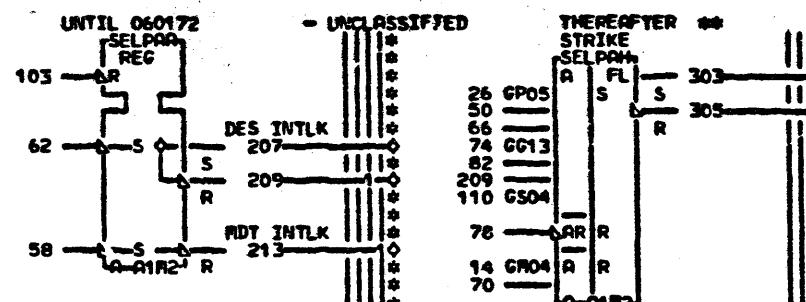
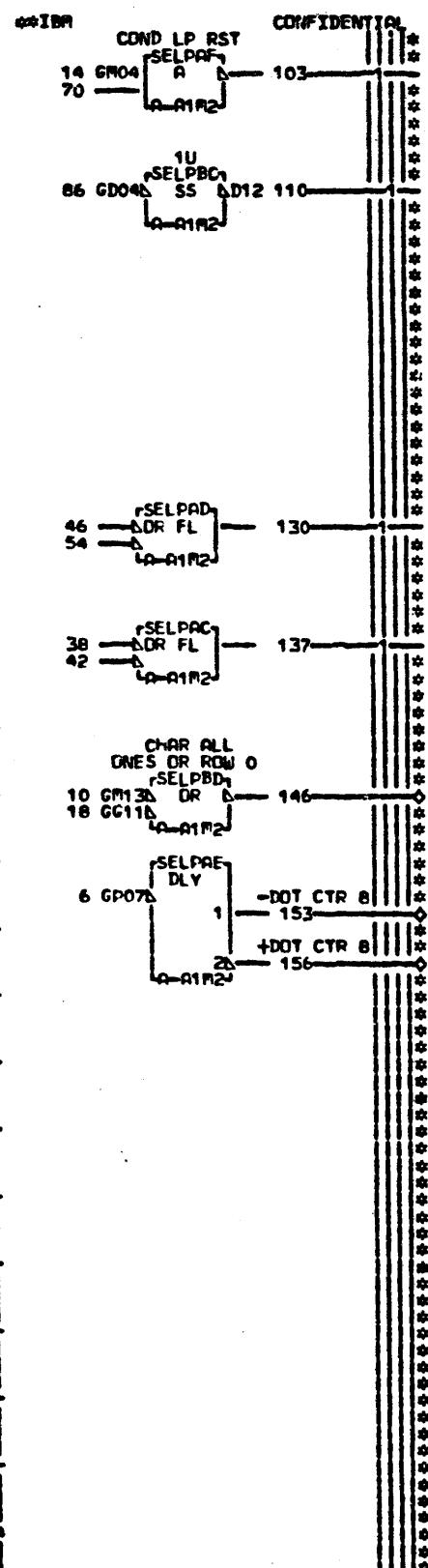


LOC. TYPE
R-21 R2 9000

PAGE VER EC LEY
KT011 P15 71794
KT021 P15 71794

DNR 1948 LP CTRL	
E.C. HISTORY	
717473 716959	PARCH 3277
DATE LAST EC 08-03-72 717946	PHONE 01 KT011 IBM CORP, KN KT021 P.O. No. 1823774 R15

+ DOT S KF021GB2- 2
 + DOT S KF021GF2- 6
 - CHAR ALL ONES KF031GJ4- 10-1
 + STEP ROW CTR KF141FB4- 14
 - ROW 0 KF151GE4- 18-1
 + LAST LINE KF171DB4- 22
 + LP LINE KF181CD4- 26-1
 - DOT CTR 0 KT011RA4- 30
 + DOT CTR 6 KT011RE4- 34-3
 - SET LP INSRT PDT KT011PG4- 38
 - SET LP INSRT BIT 7 KT011DG4- 42
 - SET LP DLET PDT KT011FG4- 46
 + CORRECT DES CODE KT011GH4- 50
 - SET LP DLET BIT 7 KT011HG4- 54
 - SET PDT INTLK KT011HL4- 58
 - SET DFS INTLK KT011HP4- 62
 + LP BUSY DN KT051RF4- 66
 - LP BUSY DN KT051RG4- 70
 - LP RJD KT051RJ4- 74
 - RESET KT051RZ4- 78
 - LP CTR 0 KT061RS4- 82
 - LP STRIKE KT101RA6- 86
 + BIT 8 FROM LINE BUFFER PC021BG4- 90



008 KT031 008 KT041

193 - DOT CTR 8 KT011-RG4

235 - F 0 DELETE BIT 7 4KB011 4KB021 GP4

239 - F 0 INSERT BIT 7 4KB011 4KB021 GP4

213 - PDT INTLK SET KT011-BB4

156 + DOT CTR 8 4KT011 4KT021 BG4

008 KT031 008

436 - PDD 1 FS KT011-GP4

303 + STRIKE LAT 4KT011 4KT061 GP4

305 - STRIKE LAT 4KT021 4KT061 GP4

207 + DES INTLK SET KT011-GT4

209 - DES INTLK SET 4KT011 4KT051 GU4

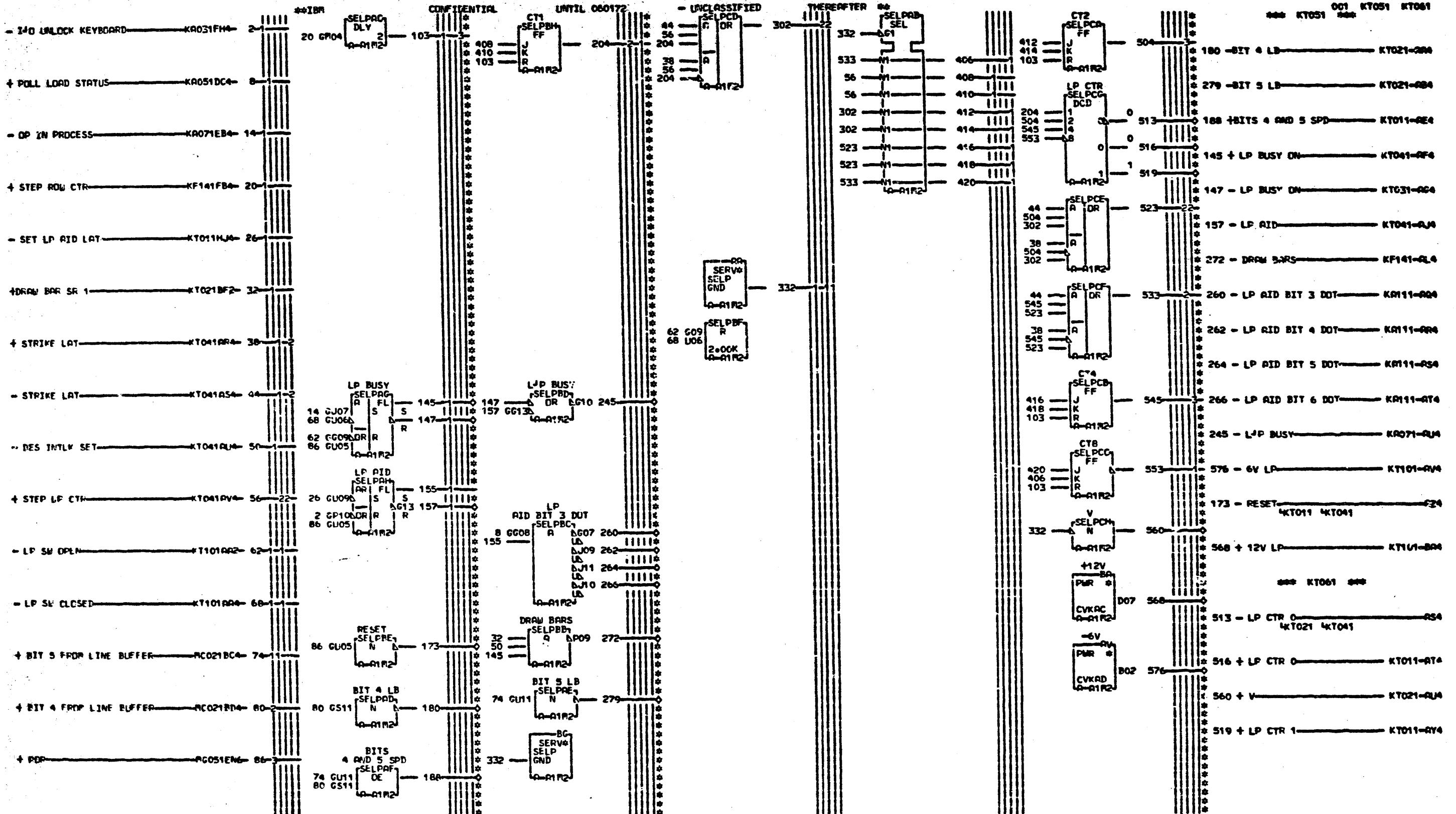
417 + STEP LP CTR KT061-GV4

403 +FS ON LINE 5 KT011-BB4

146 - CHAR ALL ONES OR ROW 0 KT011-BH4

PAGE VER EC LEV
KT031 001 717473
KT041 001 717946

ANR 19448 LP CTRL		PACH-3277	
E-Co-HISTORY	717473	FRAME	01 KT031
DATE	LAST EC	IBM CORP/NM	KT041
08-05-72	717946	P.No 1823776	001



PAGE VFR EC LEV
KT051 001 717946
KT061 001 717473

PAR 1948 LP CTRL	
-E.C.-HISTORY-	B-FRACH-3277
717473	
716959	
717492	
DATE LAST EC	FRAME 01 KT051
08-05-72 717946	IBR CORP, KN KT061
	P.N. 1823780 001

001SR

CONFIDENTIAL

UNTIL 060172

- UNCLASSIFIED

THEREAFTER 00

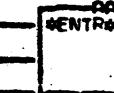
001 KT01

- LP SW OPEN
- LP SW CLOSED
- LP STRIKE

008

009

010

LKT011 - LP SW OPEN
4KT051 002LKT021 - LP SW CLOSED
4KT041 4KT051LKT021 - LP STRIKE
4KT041 4KT051

+ 12V LP

- 6V LP

NEXT10

+ 12V

- 6V

GND

002

004

006



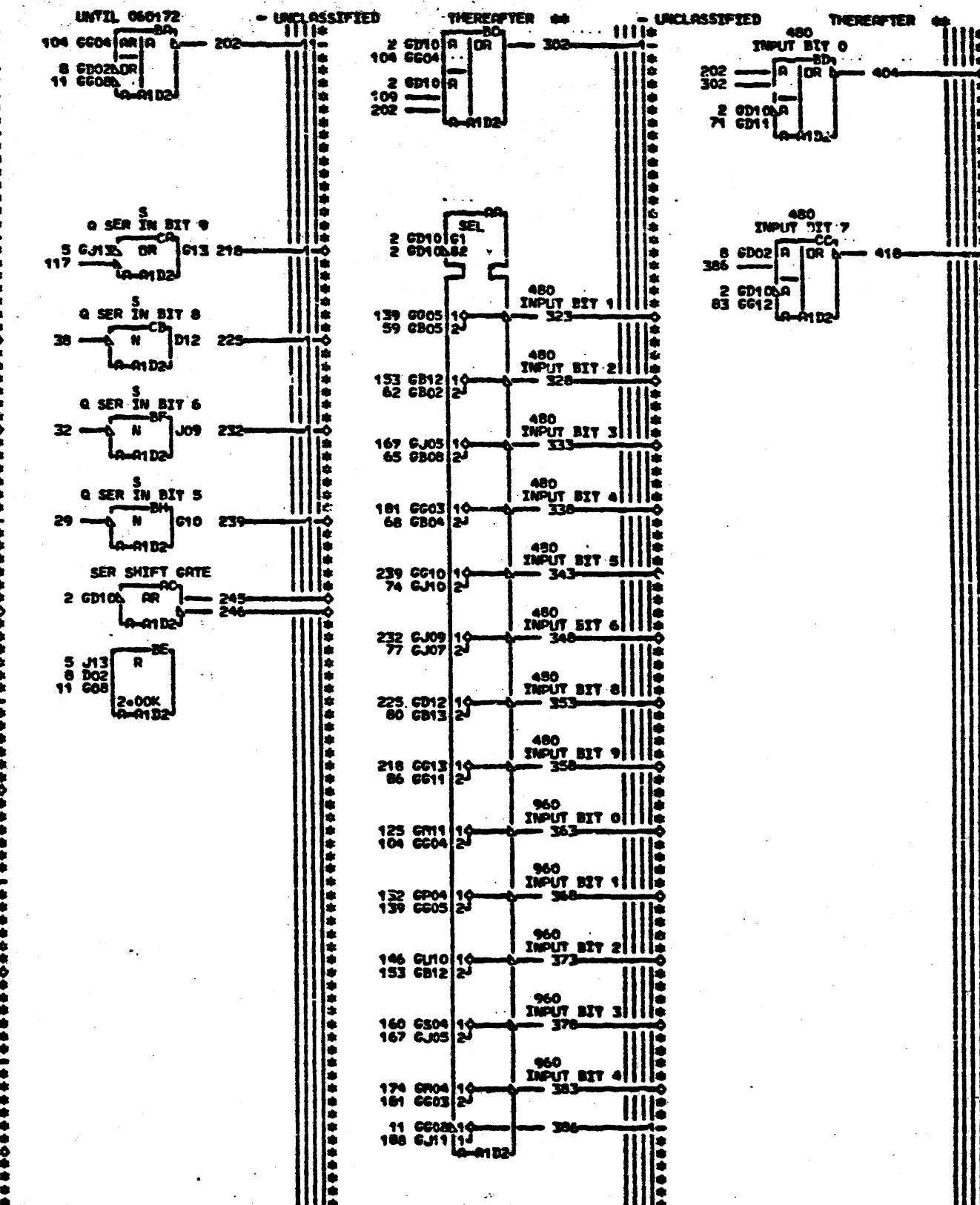
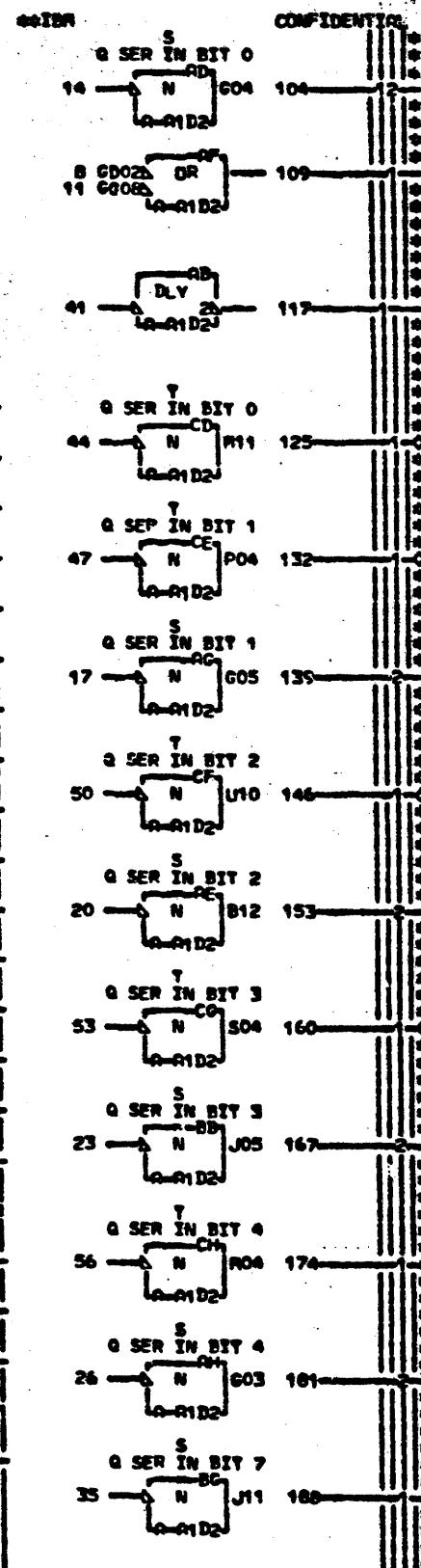
KT051AV4 AE4 A-A1P1B13
01A-A1P1D13 01B-A1P1A11
KT051B04 C1P-A1L1C13
002 A-A1P1C13
01B-A1L1B11
004 A-A1L1E13
01B-A1L1B11
006 A-A1L1B13

LOC. TYPE

SELECTOR PEN INTERFACE LINES	
E.C.-HISTORY	B-PACH-3277
717473	
FRAME	01
DATE LAST EC	01
06-01-72 717492	001
IBM CORP. SDD	001
P.O. 1623763	

K
1
0
4
001

- SERIAL SHIFT GT XE0171GCC4- 2-142
 - F Q INSERT BIT 0 XE0110G4- 5-2
 - F Q DELETE BIT 7 XE0310G4- 6-12
 - F Q INSERT BIT 7 XE0310G4- 11-2
 - 480 FET OUT BIT 0 RB051BB4- 14-1
 - 480 FET OUT BIT 1 RB051BB4- 17-1
 - 480 FET OUT BIT 2 RB051BC4- 20-1
 - 480 FET OUT BIT 3 RB051BD4- 23-1
 - 480 FET OUT BIT 4 RB051BE4- 26-1
 - 480 FET OUT BIT 5 RB051BF4- 29-1
 - 480 FET OUT BIT 6 RB051BG4- 32-1
 - 480 FET OUT BIT 7 RB051BH4- 35-1
 - 480 FET OUT BIT 8 RB051BJ4- 38-1
 - 480 FET OUT BIT 9 RB051BK4- 41-1
 - 960 FET OUT BIT 0 RB061BB4- 44-1
 - 960 FET OUT BIT 1 RB061BB4- 47-1
 - 960 FET OUT BIT 2 RB061BC4- 50-1
 - 960 FET OUT BIT 3 RB061BD4- 53-1
 - 960 FET OUT BIT 4 RB061BE4- 56-1
 + F Q SER IN BIT 1 RC011ED4- 59-1
 + F Q SER IN BIT 2 RC011ED4- 62-1
 + F Q SER IN BIT 3 RC011EJ4- 65-1
 + F Q SER IN BIT 4 RC011EL4- 68-1
 + F Q SER IN BIT 0 RC011GCC4- 71-1
 + F Q SER IN BIT 5 RC021FB4- 74-1
 + F Q SER IN BIT 6 RC021FD4- 77-1
 + F Q SER IN BIT 8 RC021FJ4- 80-1
 + F Q SER IN BIT 7 RC021FG4- 83-1
 + F Q SER IN BIT 9 RC021GL4- 86-1



001 RB011 RB031
 002 RB011 204
 246 + QUARTER SHIFT GATE RB041-024
 245 + SER SHIFT GATE RB041-024
 329 - 480 INPUT BIT 2 RB051-074
 323 - 480 INPUT BIT 1 RB051-064
 404 - 480 INPUT BIT 0 RB051-054
 338 - 480 INPUT BIT 4 RB051-034
 333 - 480 INPUT BIT 3 RB051-024
 340 RB021 044
 232 + 5 Q SER IN BIT 6 RB001-024
 188 + 5 Q SER IN BIT 7 RB001-024
 239 + 5 Q SER IN BIT 3 RB011-024
 218 + 5 Q SER IN BIT 9 RB001-074
 225 + 5 Q SER IN BIT 8 RB001-054
 343 - 480 INPUT BIT 5 RB051-054
 348 - 480 INPUT BIT 6 RB051-064
 418 - 480 INPUT BIT 7 RB051-074
 353 - 480 INPUT BIT 8 RB051-084
 358 - 480 INPUT BIT 9 RB051-094
 044 RB031 044
 125 + T Q SER IN BIT 0 RB111-024
 132 + T Q SER IN BIT 1 RB111-024
 146 + T Q SER IN BIT 2 RB111-024
 160 + T Q SER IN BIT 3 RB111-024
 174 + T Q SER IN BIT 4 RB111-024
 363 - 960 INPUT BIT 0 RB061-024
 368 - 960 INPUT BIT 1 RB061-034
 372 - 960 INPUT BIT 2 RB061-044
 378 - 960 INPUT BIT 3 RB061-054
 383 - 960 INPUT BIT 4 RB061-064

RC011 TO PW 1963770 EC 717473
RC011 TO PW 1963771 EC 717473

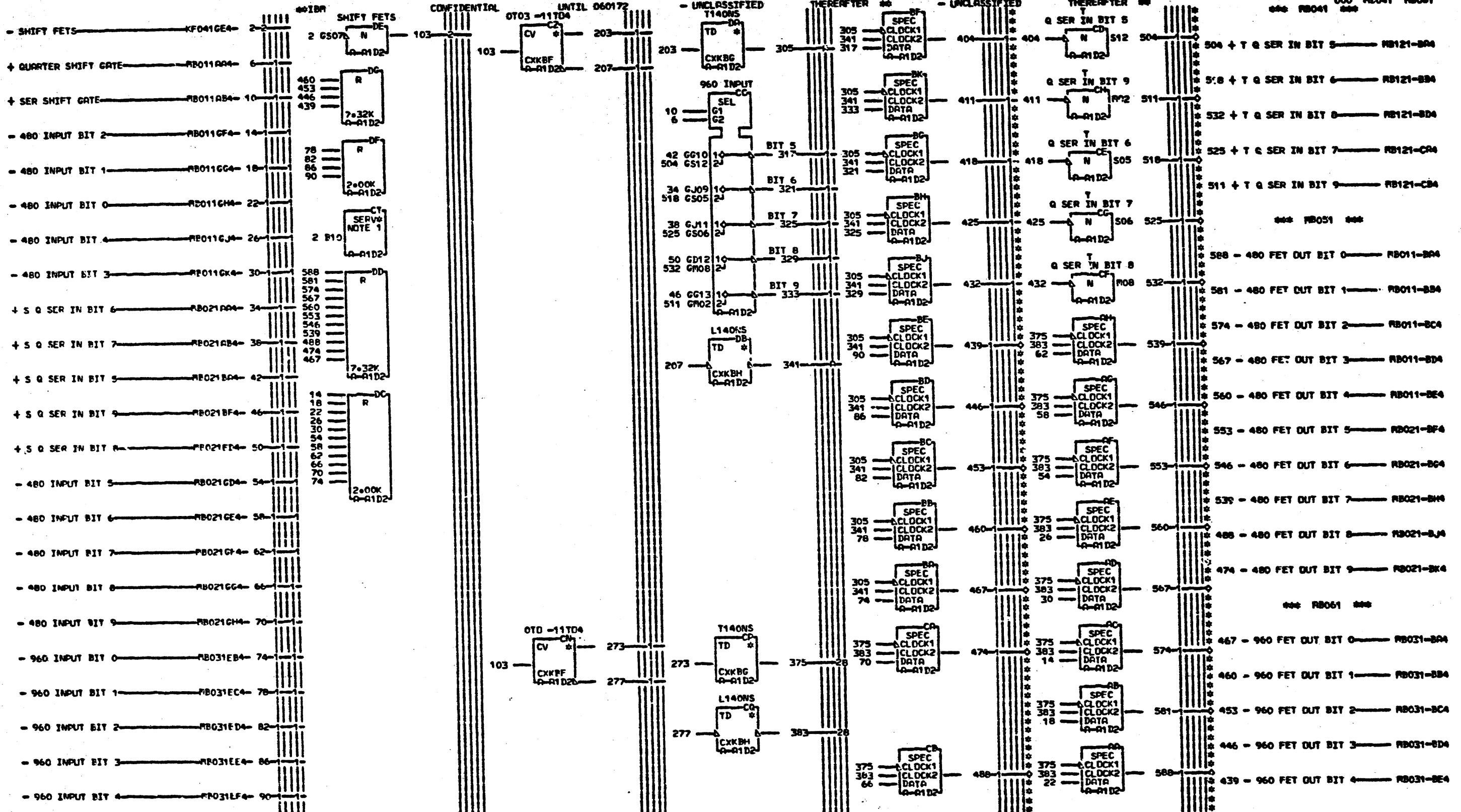
RB011
RB031
001

LDC- TYPE
R011D2 9065

PAGE VER EC REV
RB011 001 717473
RB021 001 717473
RB031 000 717473

960 STDIN + GATE	
E-C-HISTORY	PAGN-3277
	PAGE 01 RB011
	IBM CORP. INC RB031

DATE LAST EC 01-21-72 717473 IPN. 1923785 001

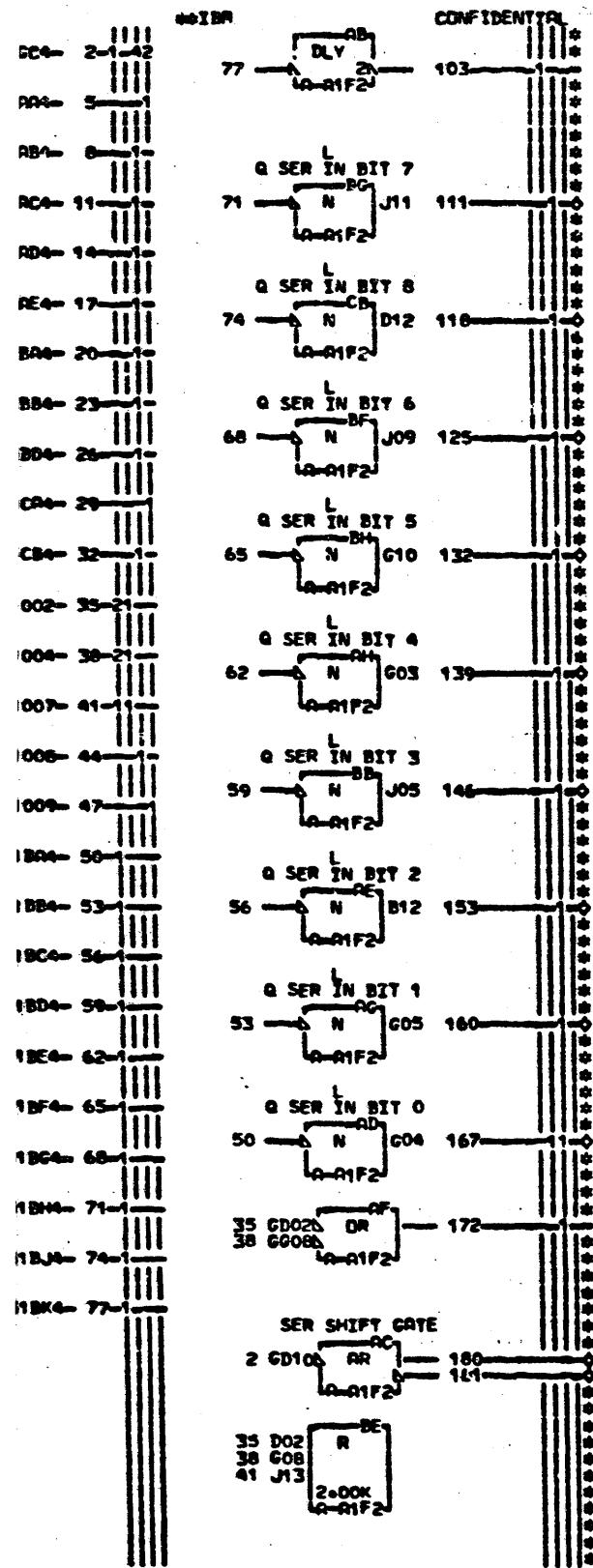


LOC. TYPE
2-2182 9055

PAGE VER EC LE
PB041 000 71749
PB051 000 71794
PB061 000 71795

960 STOR + GATE	
-E.C.-HISTORY- 3 PACH 3277	
717473	FROME 01 FB0041
717492	IBR CORP. KN FB061
DATE 08-05-72	PoNo 1823789 000
LAST EC 717946	

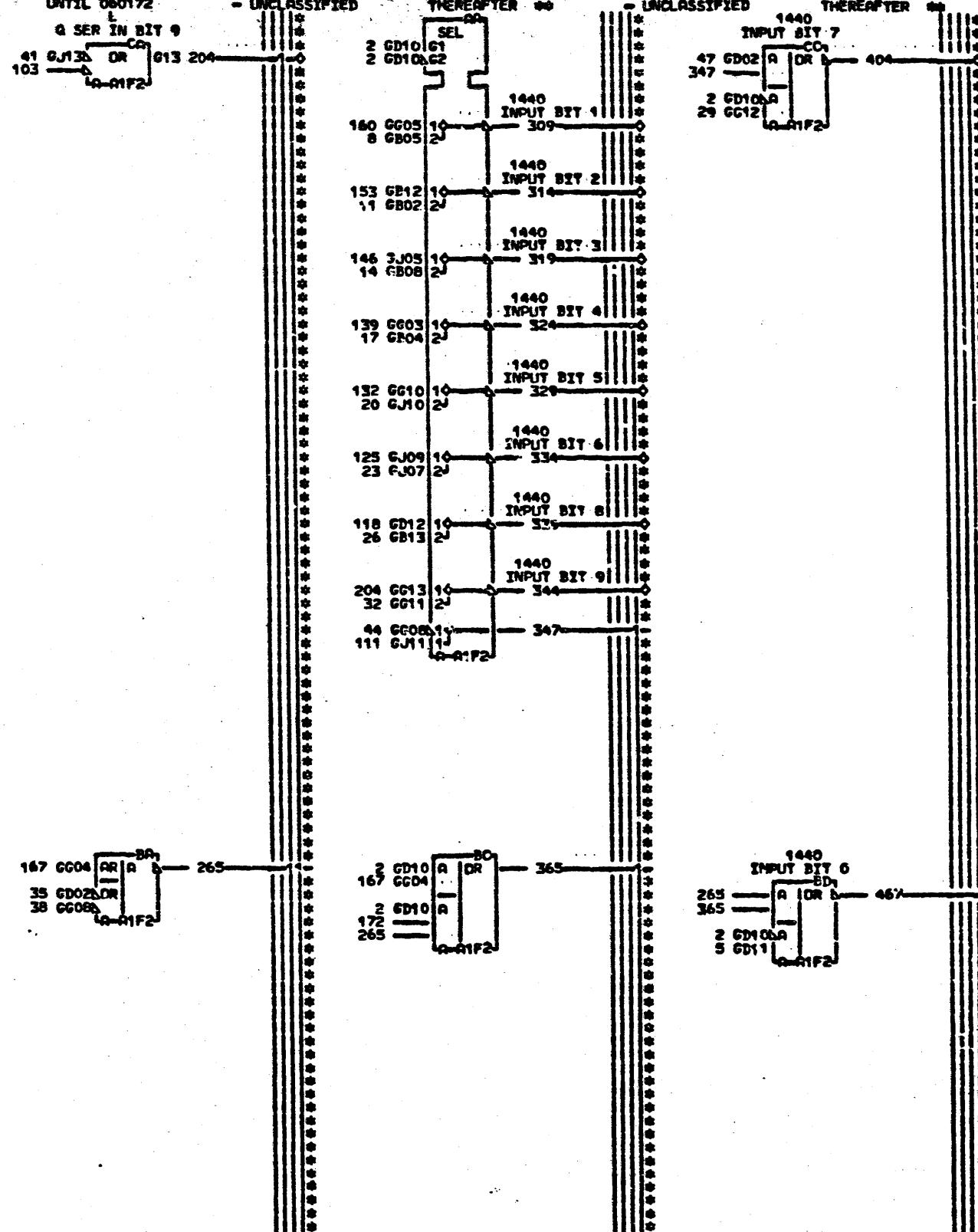
F804
F806
600



UNTIL 060172 - UNCLASSIFIED
Q SER IN BIT 9
41 0113D DR 613 204
103

IFIED THEREAFTER \$0

- UNCLASSIFIED THEREAFTER

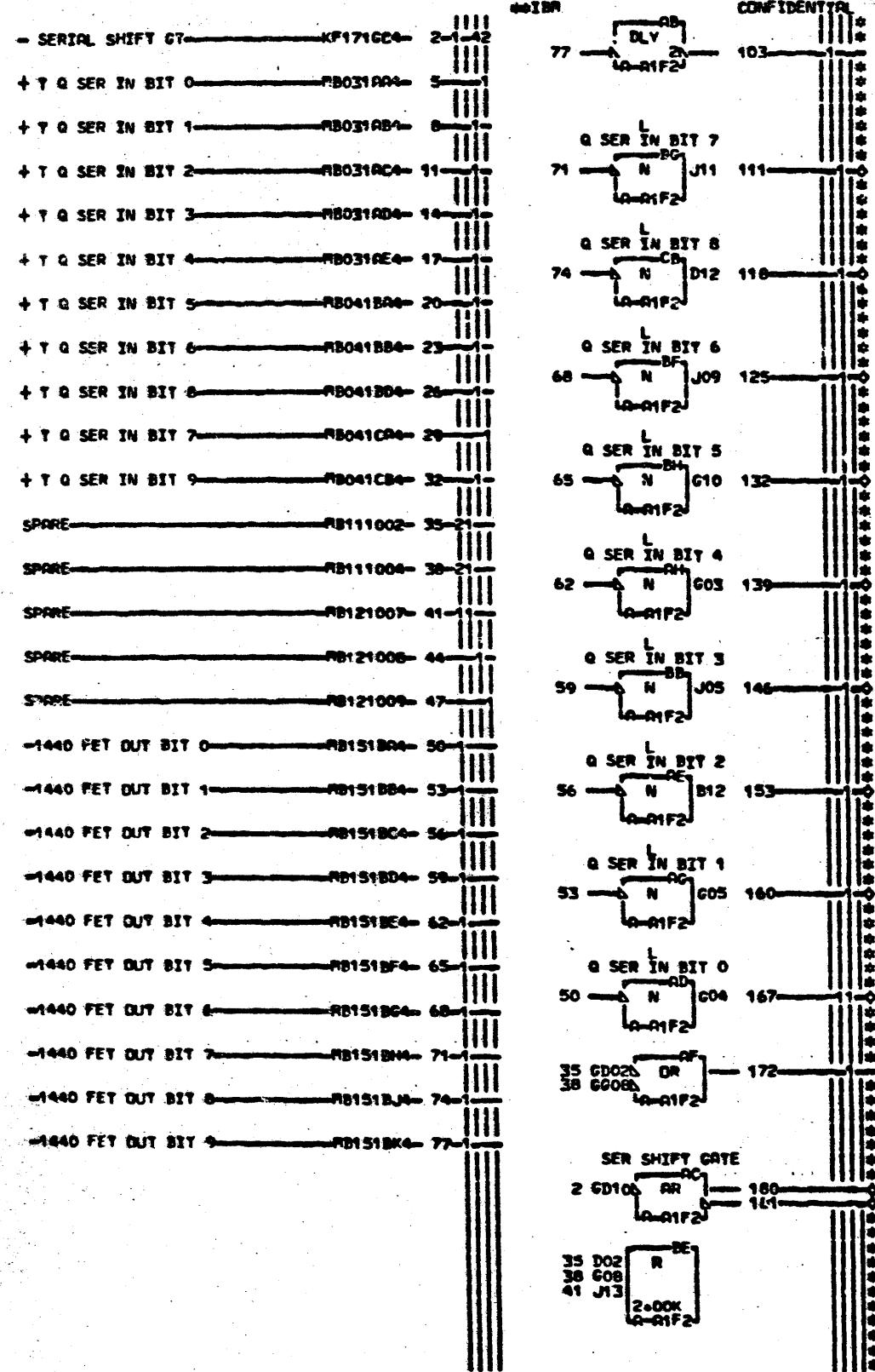


181 + QUARTER SHIFT GATE _____ RB111
 448131 448141 000 RB111 RB121
 180 + SER SHIFT GATE _____ RB114
 448131 448141
 167 + L Q SER IN BIT 0 _____ RB131-2CA
 153 + L Q SER IN BIT 2 _____ RB131-ED4
 160 + L Q SER IN BIT 1 _____ RB131-CB4
 139 + L Q SER IN BIT 4 _____ RB131-DE4
 146 + L Q SER IN BIT 3 _____ RB131-E84
 314 -1440 INPUT BIT 2 _____ RB151-6F4
 309 -1440 INPUT BIT 1 _____ RB151-CD4
 467 -1440 INPUT BIT 0 _____ RB151-CH4
 324 -1440 INPUT BIT 4 _____ RB151-6J4
 319 -1440 INPUT BIT 3 _____ RB151-CK4
 319 -1440 INPUT BIT 2 _____ RB151-6K4
 319 -1440 INPUT BIT 1 _____ RB151-6G4
 319 -1440 INPUT BIT 0 _____ RB151-6E4
 125 + L Q SER IN BIT 6 _____ RB161-9CA
 111 + L Q SER IN BIT 7 _____ RB161-9B4
 132 + L Q SER IN BIT 5 _____ RB161-9B4
 204 + L Q SER IN BIT 9 _____ RB161-EP4
 118 + L Q SER IN BIT 8 _____ RB161-ED4
 329 -1440 INPUT BIT 5 _____ RB151-CD4
 334 -1440 INPUT BIT 6 _____ RB151-6E4
 404 -1440 INPUT BIT 7 _____ RB151-6P4
 339 -1440 INPUT BIT 8 _____ RB151-6G4
 344 -1440 INPUT BIT 9 _____ RB151-CH4

LDC. TYPE
P-21F2 2045

PAGE VER EC LET
FBI:JW 003 717473
FBI:JW 003 717477

960 STOR + GATE			
E.C. HISTORY		PARCH 3277	
DATE	LAST EC	FRAME	01
01-21-72	717473	IBM CORP., INC.	REB11
		P.O. No. 1823782	REB12
			000



LOC. TYPE
A-A1F2 9065

UNTIL 060172 - UNCLASSIFIED THEREAFTER #0

Q SER IN BIT 9
41 GJ130 OR 613 204
103 104-A1F2

167 GJ04 AR A B 265
35 GJ021 DR
38 GJ020 A-A1F2

2 GD10 61
2 GD10 62

SEL

1440 INPUT BIT 1 309

153 GJ12 10 314
11 GJ02 2J

146 J305 10 319
14 GJ06 2J

139 GJ03 10 324
17 GJ04 2J

132 GJ10 10 329
20 GJ10 2J

125 GJ09 10 334
23 GJ07 2J

118 GJ12 10 339
26 GJ13 2J

204 GJ13 10 344
32 GJ11 2J

44 GJ021 11 347
111 GJ11 11 A-A1F2

1440 INPUT BIT 2 314

1440 INPUT BIT 3 319

1440 INPUT BIT 4 324

1440 INPUT BIT 5 329

1440 INPUT BIT 6 334

1440 INPUT BIT 7 339

1440 INPUT BIT 8 344

1440 INPUT BIT 9 347

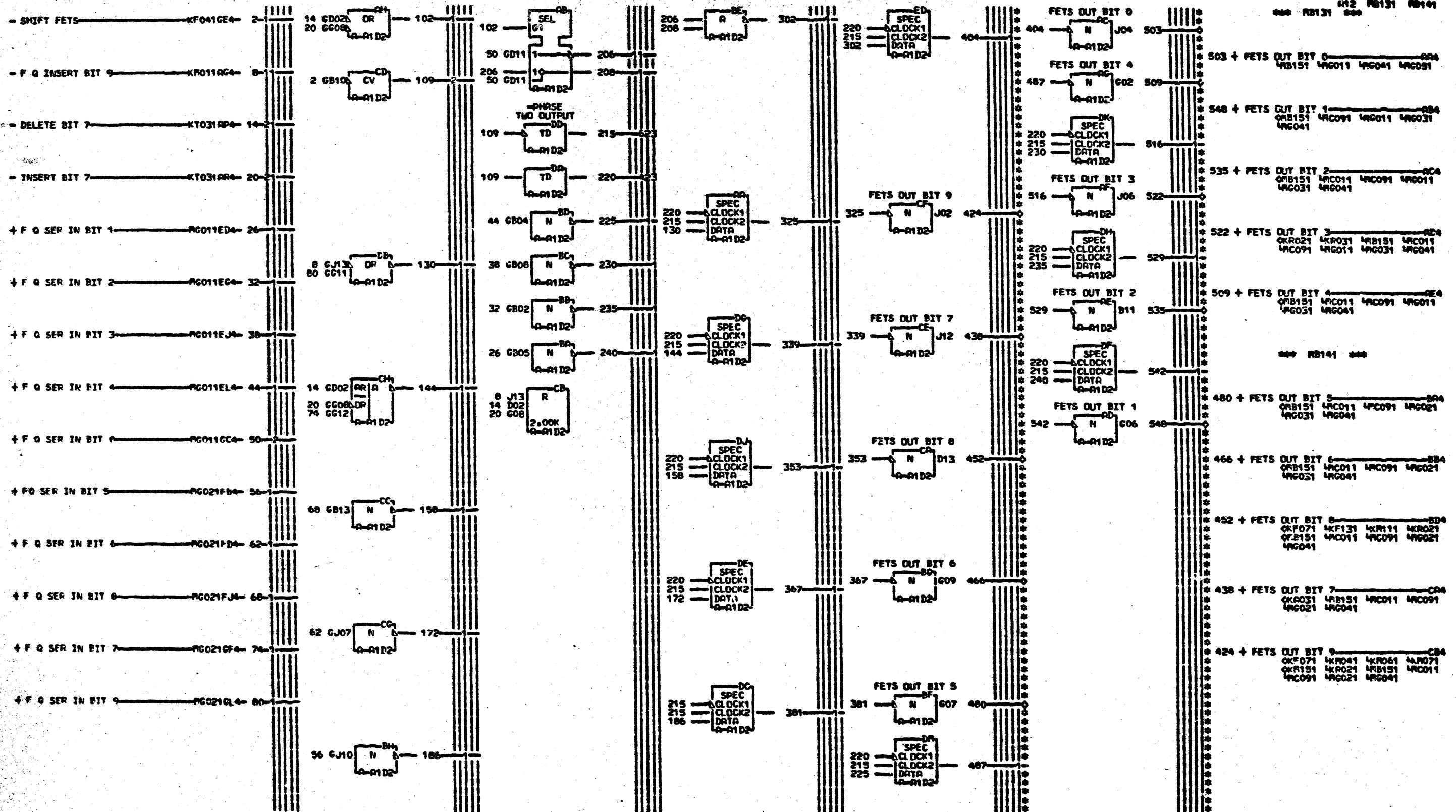
1440 INPUT BIT 0 365

2 GD10 5
5 GJ11 A-A1F2

THEREAFTER #0

PAGE VER EC LE
FB111 000 71747
FB421 000 71747

960 STOR + GATE	
E.C. HISTORY	RACH 3277
DATE LAST EC 01-21-72 717473	FRAME 01 RB111 IBM CORP, KN RB121 P.O. N 1823782 000



**Re:SIM TO PH 1563778 FC 717473
Re:SIM TO PH 1563779 EC 717946**

LOC. TY
A-A1D2 90

PAGE VER EC L
RB131 A12 7179
RB141 B12 7174

480 STORAGE BITS 0-4

E.C. HISTORY	FRAC.H.3277
717473	FRAME 01
717492	IBM CORP., KN
DATE LAST EC	P.O. NO. 1823799
08-05-72 717946	

**IBR

+ QUARTER SHIFT GATE RB111AB4- 21

+ SER SHIFT GATE RB111AB4- 6

+ L Q SER IN BIT 0 RB111BC4- 10

+ L Q SER IN BIT 2 RB111BD4- 14

+ L Q SER IN BIT 1 RB111CB4- 18

+ L Q SER IN BIT 4 RB111DE4- 22

+ L Q SER IN BIT 3 RB111EG4- 26

+ L Q SER IN BIT 6 RB121AA4- 30

+ L Q SER IN BIT 7 RB121AB4- 34

+ L Q SER IN BIT 5 RB121BA4- 38

+ L Q SER IN BIT 9 RB121BF4- 42

+ L Q SER IN BIT 8 RB121ED4- 46

-1920 FET OUT BIT 0 RB161BA4- 50

-1920 FET OUT BIT 1 RB161BB4- 54

-1920 FET OUT BIT 2 RB161BC4- 58

-1920 FET OUT BIT 3 RB161BD4- 62

-1920 FET OUT BIT 4 RB161BE4- 66

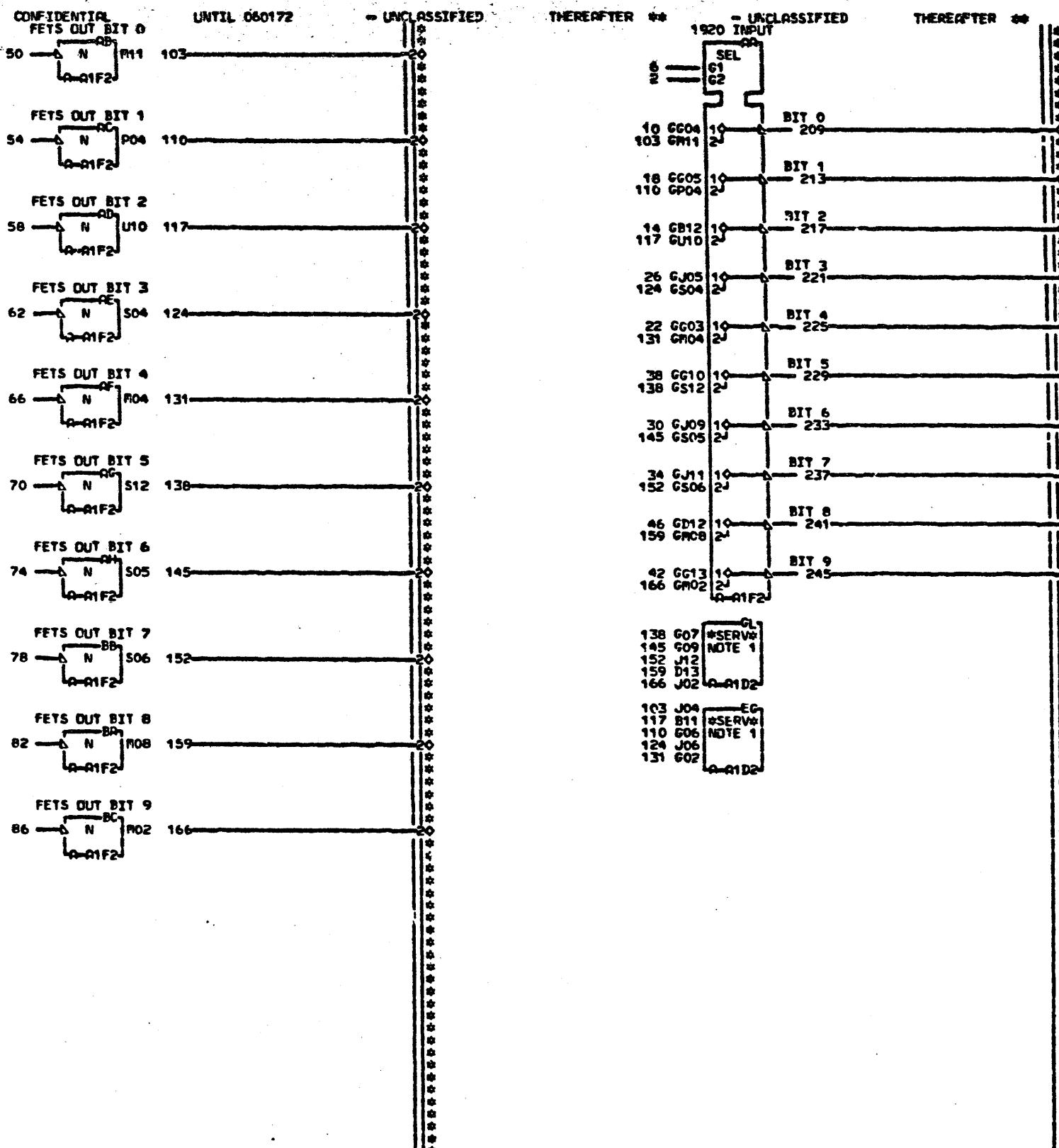
-1920 FET OUT BIT 5 RB161BF4- 70

-1920 FET OUT BIT 6 RB161BG4- 74

-1920 FET OUT BIT 7 RB161BH4- 78

-1920 FET OUT BIT 8 RB161BJ4- 82

-1920 FET OUT BIT 9 RB161BK4- 86



A:NOTE 1 FOR 480 FORMAT
SIM TO PN 1563778 EC 717473
B:NOTE 1 FOR 480 FORMAT

RB131
RB141
001

LOC. TYPE
A-A1F2 9065

PAGE VER FC LEV
RB131 001 717473
RB141 000 717946

000 RB131 001 RB131 RB141
103 + FETS OUT BIT 0 4RC011 4RC041 4RC051 004
110 + FETS OUT BIT 1 4RC011 4RC031 4RC041 004
117 + FETS OUT BIT 2 4RC011 4RC011 4RC031 4RC041 004
124 + FETS OUT BIT 3 4RC011 4RC011 4RC031 4RC041 004
131 + FETS OUT BIT 4 4RC011 4RC011 4RC031 4RC041 004
209 -1920 INPUT BIT 0 RB161-EB4
213 -1920 INPUT BIT 1 RB161-EC4
217 -1920 INPUT BIT 2 RB161-ED4
221 -1920 INPUT BIT 3 RB161-EE4
225 -1920 INPUT BIT 4 RB161-EF4
000 RB141 000
138 + FETS OUT BIT 5 4RC011 4RC091 4RC021 4RC031 004
145 + FETS OUT BIT 6 4RC011 4RC091 4RC021 4RC031 004
159 + FETS OUT BIT 8 4KF071 4KF131 4KF111 4KR021 4RC041 004
152 + FETS OUT BIT 7 4KR031 4RC011 4RC091 4RC021 4RC041 004
166 + FETS OUT BIT 9 4KF071 4KR041 4KR061 4KF071 4KF151 4KR021 4RC011 4RC091 4RC021 4RC041 004
229 -1920 INPUT BIT 5 RB161-GC4
233 -1920 INPUT BIT 6 RB161-GD4
237 -1920 INPUT BIT 7 RB161-GE4
241 -1920 INPUT BIT 8 RB161-GF4
245 -1920 INPUT BIT 9 RB161-GG4

960 STORE + GATE
--Ec--HISTORY--B-PACH-3277
717473 FRAME 01 RB131
IBR CORP+PD RB141
DATE LAST EC 08-05-72 717946 P.o.N. 1823795 001

- SHIFT FETS - KF041GE4- 2-3

- SERIAL SHIFT GT - KF171GC4- 9-2

+ FETS OUT BIT 0 - RB131RA4- 16-

+ FETS OUT BIT 1 - RB131AB4- 23-

+ FETS OUT BIT 2 - RB131AC4- 30-

+ FETS OUT BIT 3 - RB131AD4- 37-

+ FETS OUT BIT 4 - RB131AE4- 44-

+ FETS OUT BIT 5 - RB141BA4- 51-

+ FETS OUT BIT 6 - RB141FB4- 58-

+ FETS OUT BIT 8 - RB141BD4- 65-

+ FETS OUT BIT 7 - RB141CA4- 72-

+ FETS OUT BIT 9 - RB141CB4- 79-

**IBR

CONFIDENTIAL

UNTIL 060172

- UNCLASSIFIED
108 D11
109 B05
110 B04
111 B13
112 G11
Q-A1F2

- SERV*
NOTE 1
B11 108
D04 109
B04 110
B08 111
B02 112
Q-A1D4

SERV
NOTE 1
B07
Q-A1D5

B11 PE
23 P04 *SERV*
30 U10 NOTE 1
37 S04
44 P04
51 S12
58 S05
72 S06
65 P02 Q-A1F2
79 R02

D10 AD
SERV
NOTE 1
B07 Q-A1F2

D10 AC
SERV
NOTE 1
B10 Q-A1D2

D10 AB
SERV
NOTE 1
158 B02
159 B08
161 J10
162 J07
163 G12 Q-A1F2

SERV
NOTE 1
D10 158
B04 159
B12 161
B05 162
B06 163
Q-A1D5

002 RB151 RB161

A. NOTE 1 FOR 1920 FORMAT
SIR TO PN 1563760 EC 717946
B. SIR TO PN 1563761 EC 717473

LOC. TYPE

PAGE VER EC LEV
RB151 002 717946
RB161 002 717473

RB151
RB161
002

REF 1920 BOARD WIRING		PCN 3277	
E.C. HISTORY		PCN 3277	
717473		FRAME 01 RB151	
		IBR CORP. SDD RB161	
DATE LRST EC 08-11-72 717946		P.o.N. 1823802 002	

- SHIFT FETS KF041GE4- 2
 -1440 INPUT BIT 2 RB111GF4- 6
 -1440 INPUT BIT 1 RB111GG4- 10
 -1440 INPUT BIT 0 RB111GH4- 14
 -1440 INPUT BIT 4 RB111GJ4- 18
 -1440 INPUT BIT 3 RB111GK4- 22
 -1440 INPUT BIT 5 RB121GD4- 26
 -1440 INPUT BIT 6 RB121GE4- 30
 -1440 INPUT BIT 7 RB121GF4- 34
 -1440 INPUT BIT 8 RB121GG4- 38
 -1440 INPUT BIT 9 RB121GH4- 42
 -1920 INPUT BIT 0 RB131FB4- 46
 -1920 INPUT BIT 1 RB131FC4- 50
 -1920 INPUT BIT 2 RB131ED4- 54
 -1920 INPUT BIT 3 RB131EE4- 58
 -1920 INPUT BIT 4 RB131EF4- 62
 -1920 INPUT BIT 5 RB141GC4- 66
 -1920 INPUT BIT 6 RB141GD4- 70
 -1920 INPUT BIT 7 RB141GE4- 74
 -1920 INPUT BIT 8 RB141GF4- 78
 -1920 INPUT BIT 9 RB141GG4- 82

001BM
 SHIFT FETS
 2 GS076 N 103
 OTD -11TD4
 2 GS076 CV 109
 10 14 18 22 26 30 34 38 42 46
 CC R
 2.00X A-A1F2

CONFIDENTIAL
 UNTIL 060172
 103
 103
 109
 213
 207
 313
 213
 328
 42
 110
 CXKBG A-A1F2

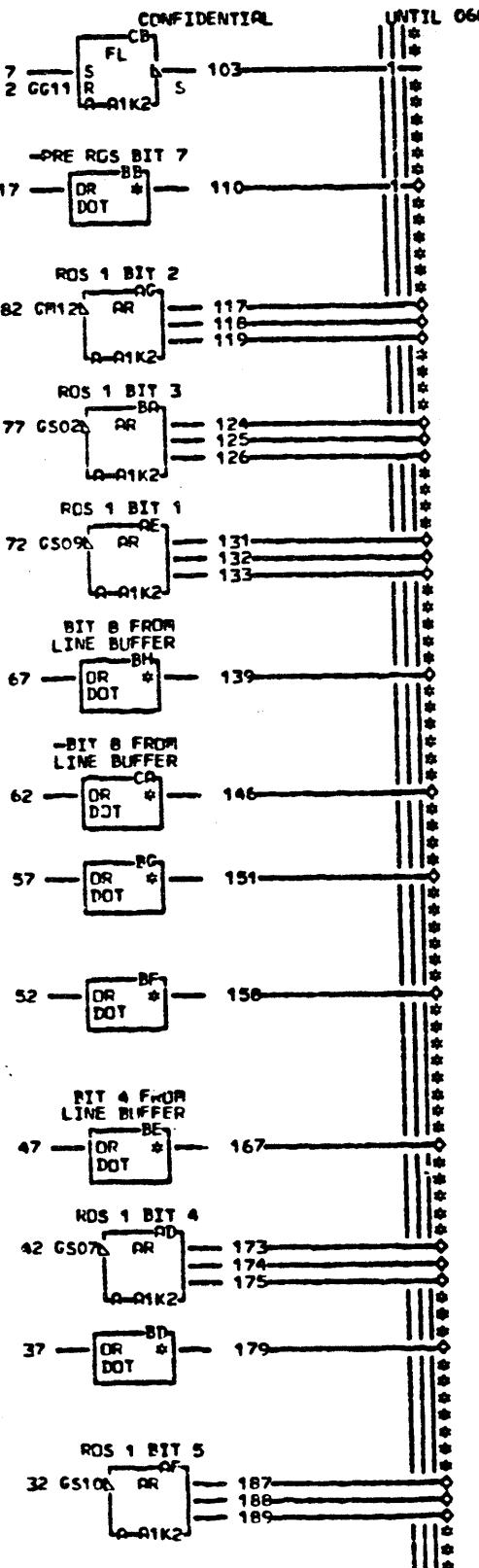
- UNCLASSIFIED
 T140NS
 TD *
 CXKBF A-A1F2
 T140NS
 TD *
 CXKBH A-A1F2
 SPEC
 CLOCK1
 CLOCK2
 DATA
 A-A1F2
 L140NS
 TD *
 CXKBH A-A1F2
 SPEC
 CLOCK1
 CLOCK2
 DATA
 A-A1F2
 L140NS
 TD *
 CXKBH A-A1F2

THEREAFTER #6
 TD *
 CXK36 A-A1F2
 TD *
 CXKBH A-A1F2
 SPEC
 CLOCK1
 CLOCK2
 DATA
 A-A1F2
 213
 328
 42
 110
 CXKBH A-A1F2

- UNCLASSIFIED
 TD *
 CXK36 A-A1F2
 TD *
 CXKBH A-A1F2
 SPEC
 CLOCK1
 CLOCK2
 DATA
 A-A1F2
 305 313 78
 213 328 74
 305 313 70
 213 328 127
 305 313 66
 213 328 62
 305 313 62
 213 328 30
 305 313 58
 213 328 26
 305 313 54
 213 328 21
 305 313 50
 213 328 18
 305 313 46
 213 328 22
 305 313 46
 213 328 6
 305 313 38
 213 328 10
 305 313 34
 213 328 14
 305 313 556
 213 328 556
 305 313 563
 213 328 563
 305 313 577
 213 328 577
 305 313 584
 213 328 584
 305 313 597
 213 328 597
 305 313 604
 213 328 604
 305 313 611
 213 328 611
 305 313 625
 213 328 625
 305 313 639
 213 328 639
 305 313 653
 213 328 653
 305 313 667
 213 328 667
 305 313 681
 213 328 681
 305 313 700
 213 328 700
 305 313 714
 213 328 714
 305 313 728
 213 328 728
 305 313 742
 213 328 742
 305 313 756
 213 328 756
 305 313 770
 213 328 770
 305 313 784
 213 328 784
 305 313 800
 213 328 800
 305 313 814
 213 328 814
 305 313 828
 213 328 828
 305 313 842
 213 328 842
 305 313 856
 213 328 856
 305 313 870
 213 328 870
 305 313 884
 213 328 884
 305 313 900
 213 328 900
 305 313 914
 213 328 914
 305 313 928
 213 328 928
 305 313 942
 213 328 942
 305 313 956
 213 328 956
 305 313 970
 213 328 970
 305 313 984
 213 328 984
 305 313 1000
 213 328 1000
 305 313 1014
 213 328 1014
 305 313 1028
 213 328 1028
 305 313 1042
 213 328 1042
 305 313 1056
 213 328 1056
 305 313 1070
 213 328 1070
 305 313 1084
 213 328 1084
 305 313 1100
 213 328 1100
 305 313 1114
 213 328 1114
 305 313 1128
 213 328 1128
 305 313 1142
 213 328 1142
 305 313 1156
 213 328 1156
 305 313 1170
 213 328 1170
 305 313 1184
 213 328 1184
 305 313 1200
 213 328 1200
 305 313 1214
 213 328 1214
 305 313 1228
 213 328 1228
 305 313 1242
 213 328 1242
 305 313 1256
 213 328 1256
 305 313 1270
 213 328 1270
 305 313 1284
 213 328 1284
 305 313 1300
 213 328 1300
 305 313 1314
 213 328 1314
 305 313 1328
 213 328 1328
 305 313 1342
 213 328 1342
 305 313 1356
 213 328 1356
 305 313 1370
 213 328 1370
 305 313 1384
 213 328 1384
 305 313 1400
 213 328 1400
 305 313 1414
 213 328 1414
 305 313 1428
 213 328 1428
 305 313 1442
 213 328 1442
 305 313 1456
 213 328 1456
 305 313 1470
 213 328 1470
 305 313 1484
 213 328 1484
 305 313 1500
 213 328 1500
 305 313 1514
 213 328 1514
 305 313 1528
 213 328 1528
 305 313 1542
 213 328 1542
 305 313 1556
 213 328 1556
 305 313 1570
 213 328 1570
 305 313 1584
 213 328 1584
 305 313 1600
 213 328 1600
 305 313 1614
 213 328 1614
 305 313 1628
 213 328 1628
 305 313 1642
 213 328 1642
 305 313 1656
 213 328 1656
 305 313 1670
 213 328 1670
 305 313 1684
 213 328 1684
 305 313 1700
 213 328 1700
 305 313 1714
 213 328 1714
 305 313 1728
 213 328 1728
 305 313 1742
 213 328 1742
 305 313 1756
 213 328 1756
 305 313 1770
 213 328 1770
 305 313 1784
 213 328 1784
 305 313 1800
 213 328 1800
 305 313 1814
 213 328 1814
 305 313 1828
 213 328 1828
 305 313 1842
 213 328 1842
 305 313 1856
 213 328 1856
 305 313 1870
 213 328 1870
 305 313 1884
 213 328 1884
 305 313 1900
 213 328 1900
 305 313 1914
 213 328 1914
 305 313 1928
 213 328 1928
 305 313 1942
 213 328 1942
 305 313 1956
 213 328 1956
 305 313 1970
 213 328 1970
 305 313 1984
 213 328 1984
 305 313 2000
 213 328 2000
 305 313 2014
 213 328 2014
 305 313 2028
 213 328 2028
 305 313 2042
 213 328 2042
 305 313 2056
 213 328 2056
 305 313 2070
 213 328 2070
 305 313 2084
 213 328 2084
 305 313 2100
 213 328 2100
 305 313 2114
 213 328 2114
 305 313 2128
 213 328 2128
 305 313 2142
 213 328 2142
 305 313 2156
 213 328 2156
 305 313 2170
 213 328 2170
 305 313 2184
 213 328 2184
 305 313 2200
 213 328 2200
 305 313 2214
 213 328 2214
 305 313 2228
 213 328 2228
 305 313 2242
 213 328 2242
 305 313 2256
 213 328 2256
 305 313 2270
 213 328 2270
 305 313 2284
 213 328 2284
 305 313 2300
 213 328 2300
 305 313 2314
 213 328 2314
 305 313 2328
 213 328 2328
 305 313 2342
 213 328 2342
 305 313 2356
 213 328 2356
 305 313 2370
 213 328 2370
 305 313 2384
 213 328 2384
 305 313 2400
 213 328 2400
 305 313 2414
 213 328 2414
 305 313 2428
 213 328 2428
 305 313 2442
 213 328 2442
 305 313 2456
 213 328 2456
 305 313 2470
 213 328 2470
 305 313 2484
 213 328 2484
 305 313 2500
 213 328 2500
 305 313 2514
 213 328 2514
 305 313 2528
 213 328 2528
 305 313 2542
 213 328 2542
 305 313 2556
 213 328 2556
 305 313 2570
 213 328 2570
 305 313 2584
 213 328 2584
 305 313 2600
 213 328 2600
 305 313 2614
 213 328 2614
 305 313 2628
 213 328 2628
 305 313 2642
 213 328 2642
 305 313 2656
 213 328 2656
 305 313 2670
 213 328 2670
 305 313 2684
 213 328 2684
 305 313 2700
 213 328 2700
 305 313 2714
 213 328 2714
 305 313 2728
 213 328 2728
 305 313 2742
 213 328 2742
 305 313 2756
 213 328 2756
 305 313 2770
 213 328 2770
 305 313 2784
 213 328 2784
 305 313 2800
 213 328 2800
 305 313 2814
 213 328 2814
 305 313 2828
 213 328 2828
 305 313 2842
 213 328 2842
 305 313 2856
 213 328 2856
 305 313 2870
 213 328 2870
 305 313 2884
 213 328 2884
 305 313 2900
 213 328 2900
 305 313 2914
 213 328 2914
 305 313 2928
 213 328 2928
 305 313 2942
 213 328 2942
 305 313 2956
 213 328 2956
 305 313 2970
 213 328 2970
 305 313 2984
 213 328 2984
 305 313 3000
 213 328 3000
 305 313 3014
 213 328 3014
 305 313 3028
 213 328 3028
 305 313 3042
 213 328 3042
 305 313 3056
 213 328 3056
 305 313 3070
 213 328 3070
 305 313 3084
 213 328 3084
 305 313 3100
 213 328 3100
 305 313 3114
 213 328 3114
 305 313 3128
 213 328 3128
 305 313 3142
 213 328 3142
 305 313 3156
 213 328 3156
 305 313 3170
 213 328 3170
 305 313 3184
 213 328 3184
 305 313 3200
 213 328 3200
 305 313 3214
 213 328 3214
 305 313 3228
 213 328 3228
 305 313 3242
 213 328 3242
 305 313 3256
 213 328 3256
 305 313 3270
 213 328 3270
 305 313 3284
 213 328 3284
 305 313 3300
 213 328 3300
 305 313 3314
 213 328 3314
 305 313 3328
 213 328 3328
 305 313 3342

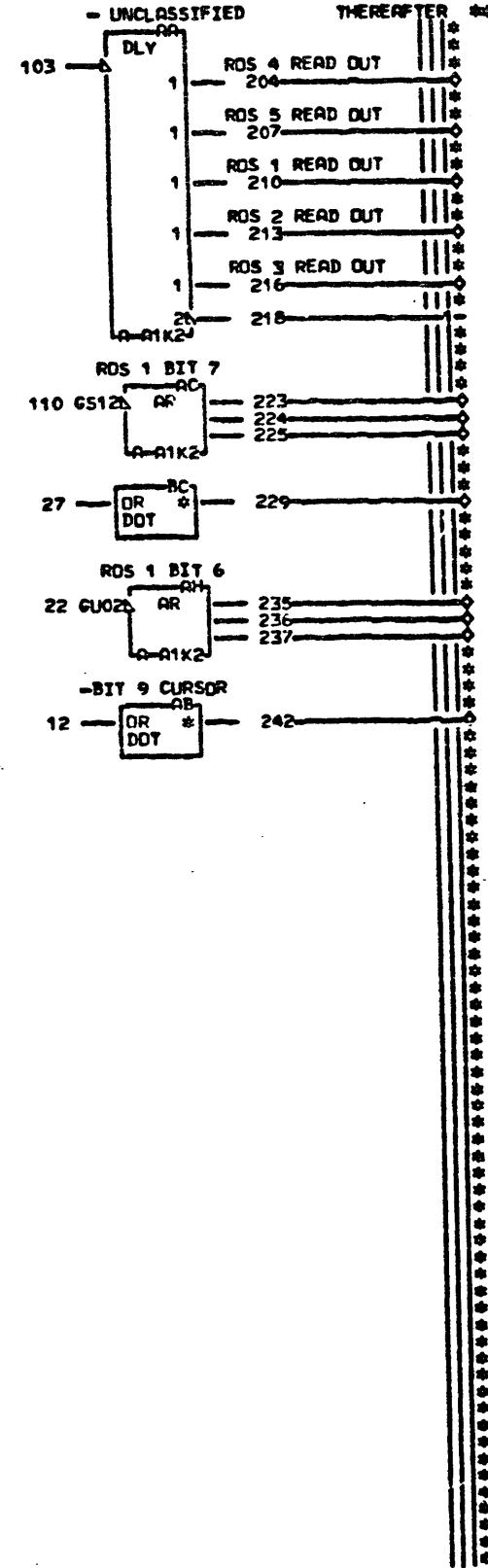
+ DOT 6 → KF021EE2- 2
 + BUFFERED DOT CTR 2 → MC061CK4- 7-1
 - BIT 9 CURSOR → PC041AB4- 12-1
 - PRE ROS BIT 7 → RC111BA2- 17-1
 - PRE ROS BIT 6 → RC111BB2- 22-1
 + BIT 6 FROM LINE BUFFER → AC111BR6- 27-1
 - PRE ROS BIT 5 → RC111BC2- 32-1
 + BIT 5 FROM LINE BUFFER → AC111BC6- 27-1
 - PRE ROS BIT 4 → RC111BD2- 42-1
 + BIT 4 FROM LINE BUFFER → AC111BD6- 47-1
 - PRE ROS BIT 3 → RC111BE2- 52-1
 - PRE ROS BIT 2 → RC111BF2- 57-1
 - BIT 8 FROM LINE BUFFER → AC111BG2- 62-1
 + BIT 8 FROM LINE BUFFER → AC111BG6- 67-1
 - PRE ROS BIT 1 → AC111BL2- 72-1

**IBM

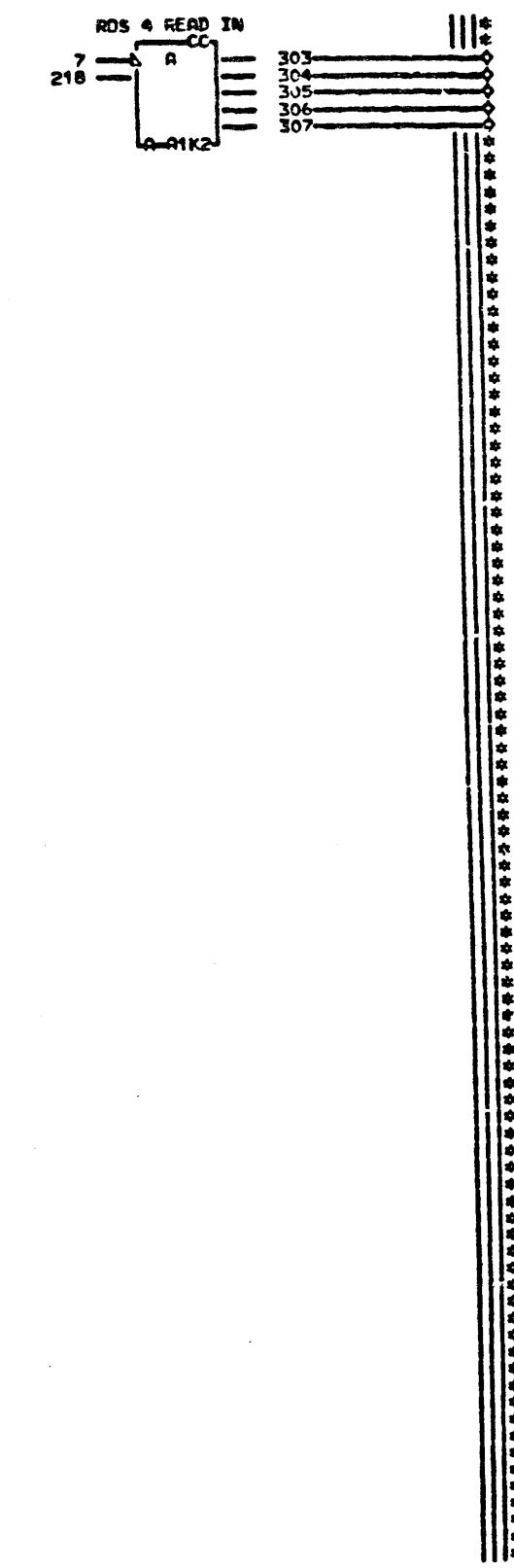


A. NOTE SF REFERENCE PAGE
 22101 FOR CHARACTER
 GENERATOR CARDS.
 SIM TL F⁴ 15637P2 EC 717452

B. SF REFERENCE PAGE
 22101 FOR CHARACTER
 GENERATOR CARDS.
 SIM TL F⁴ 15637P3 EC 717546



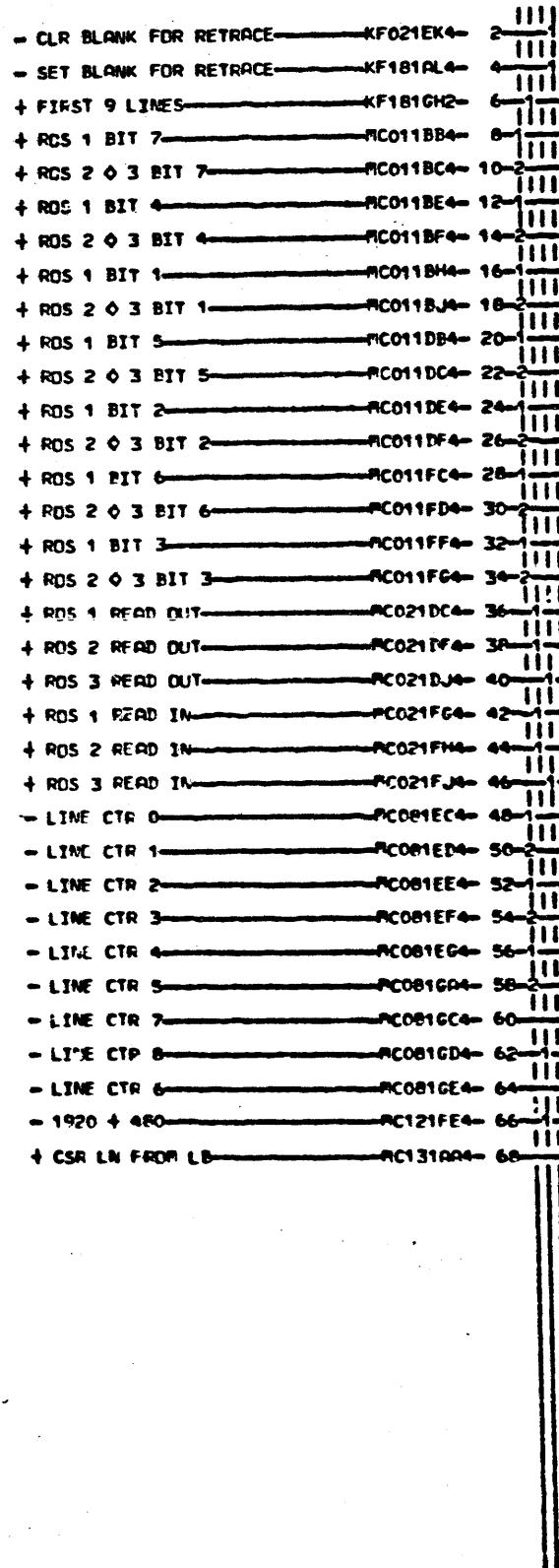
LOC. TYPE
A-A1K2 9123



PAGE VER FC LEV
PC011 005 718541
PC021 A15 718541

**IBM 242 - BIT 9 CURSOR MC011 MC091	A15 PC011 RCC21 242 + ROS 1 BIT 7 → RC041-BB4 224 + ROS 2 + 3 BIT 7 → RC041-BC4 225 + ROS 4 + 5 BIT 7 → RC051-BD4 173 + ROS 1 BIT 4 → RC041-BE4 174 + ROS 2 + 3 BIT 4 → RC041-BF4 175 + ROS 4 + 5 BIT 4 → RC051-BG4 131 + ROS 1 BIT 1 → RC041-BH4 132 + ROS 2 + 3 BIT 1 → RC041-BJ4 133 + ROS 4 + 5 BIT 1 → RC051-BK4 187 + ROS 1 BIT 5 → RC041-BB4 188 + ROS 2 + 3 BIT 5 → RC041-DB4 189 + ROS 4 + 5 BIT 5 → RC051-DD4 117 + ROS 1 BIT 2 → RC041-DE4 118 + ROS 2 + 3 BIT 2 → RC041-DF4 119 + ROS 4 + 5 BIT 2 → RC051-DG4 235 + ROS 1 BIT 6 → RC041-FC4 236 + ROS 2 + 3 BIT 6 → RC041-FD4 237 + ROS 4 + 5 BIT 6 → RC051-FE4 124 + ROS 1 BIT 3 → RC041-FF4 125 + ROS 2 + 3 BIT 3 → RC041-FG4 126 + ROS 4 + 5 BIT 3 → RC051-FH4 **IBM 204 + ROS 4 READ OUT → RC051-FA4 207 + ROS 5 READ OUT → RC051-FB4 110 - PRE ROS BIT 7 → RC111-BB4 229 + BIT 6 FROM LINE BUFFER → BB4 179 + BIT 5 FROM LINE BUFFER → BC4 167 + BIT 4 FROM LINE BUFFER → RC051-DB4 158 - PRE ROS BIT 3 → BE4 151 - PRE ROS BIT 2 → BF4 139 + BIT 8 FROM LINE BUFFER → RC051-BG4 146 - BIT 8 FROM LINE BUFFER → BL4 4KF061 MC011 303 + ROS 4 READ IN → RC051-CB4 304 + ROS 5 READ IN → RC051-CH4 210 + ROS 1 READ OUT → RC041-DC4 213 + ROS 2 READ OUT → RC041-DF4 216 + ROS 3 READ OUT → RC041-DJ4 305 + ROS 1 READ IN → RC041-FG4 306 + ROS 2 READ IN → RC041-FH4 307 + ROS 3 READ IN → RC041-FJ4
--	---

480 + 1920 CHAR. GEN. KATAKANA OR EXTENDED CHAR SET E.C. HISTORY — B. MACH 3277	
717473	FRAME 01 PC011
717492	IBM CORP SDD PC021
717946	DATE LAST FC 10-02-72 718541
	Page No. 1823810 A15



NOTE SEE REFERENCE PAGE
Z2101 FOR CHARACTER
GENERATOR CODES.

SIM TO PN 1563784 EC 717492
B-NOTE SEE REFERENCE PAGE
72121-FEB-1968-200

PC031 72101 FOR CHARACTER
GENERATOR CARDS.
PC041 SIM TU PN 1563785 EC 717946

003

CONFIDENTIAL

40IBR

ROS 1 CHIP ENABLE

Line	Address	Value
50	1	000
48	2	
28	4	255
20	8	
12	16	
32	32	
24	64	
16	128	
50	128	0-A1K2

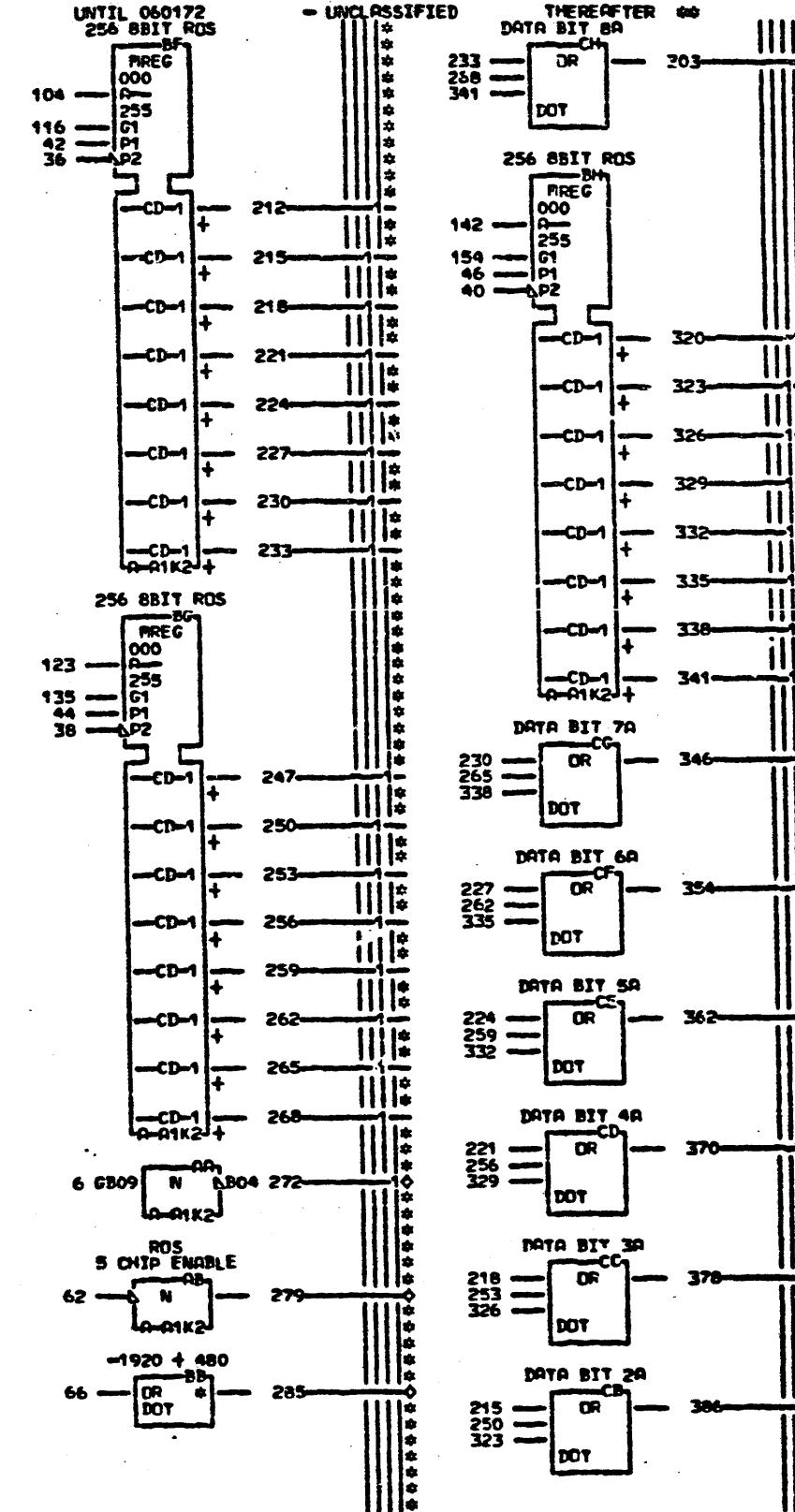
ROS 2 CHIP ENABLE

Line	Address	Value
52	1	000
50	2	
30	4	255
22	8	
14	16	
34	32	
26	64	
18	128	
52	128	0-A1K2

ROS 3 CHIP ENABLE

Line	Address	Value
56	1	000
54	2	
34	4	255
26	8	
18	16	
56	32	
58	64	
56	128	0-A1K2

LDC. TYPE
P-A1K2 9123



PAGE VER EC LEV
PC031 005 718541
PC041 005 718541

005 RC031 RC041
*** RC031 ***

FIRST 9 LINES ————— RC031

RDS 5 CHIP ENABLE ————— RC051-BB4

RDS 4 CHIP ENABLE ————— RC051-CD4

RDS 4 TRACE SELECT ————— RC051-CH4

RTR BLNK OR NOT 1ST 9 LNS ————— CR4
4RC061

1920 + 490 ————— FE4
OK061 4KF019 4KF031 4KF041
4KF151 4KF161 4KF171 4KF181

*** RC041 ***

DATA BIT 1A ————— RC061-CH4

DATA BIT 2A ————— RC061-CH4

DATA BIT 3A ————— RC061-CH4

DATA BIT 4A ————— RC061-GL4

DATA BIT 5A ————— RC061-CH4

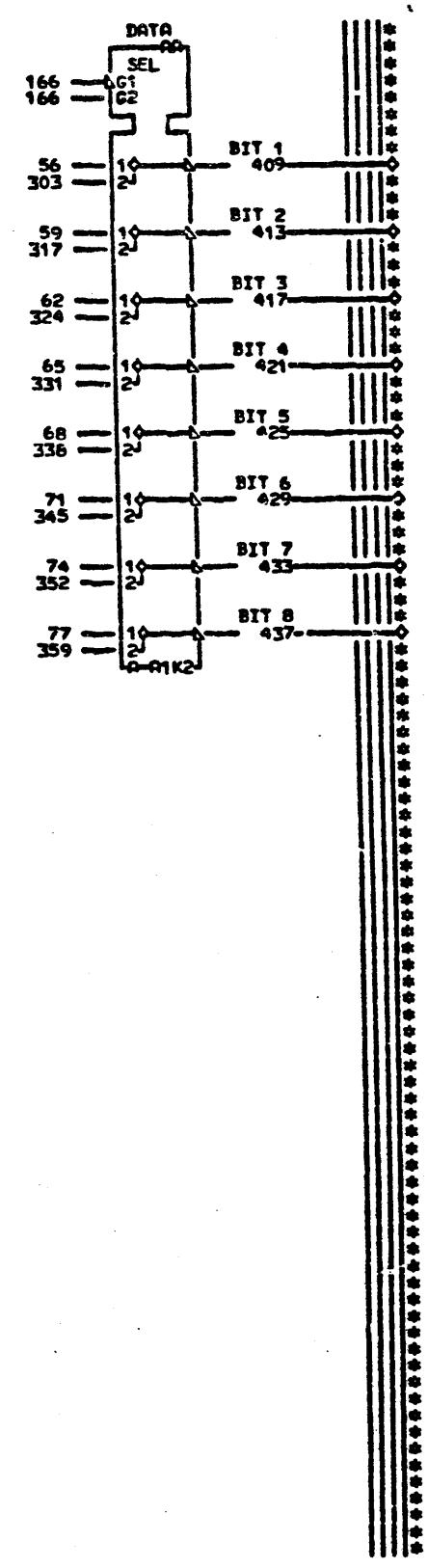
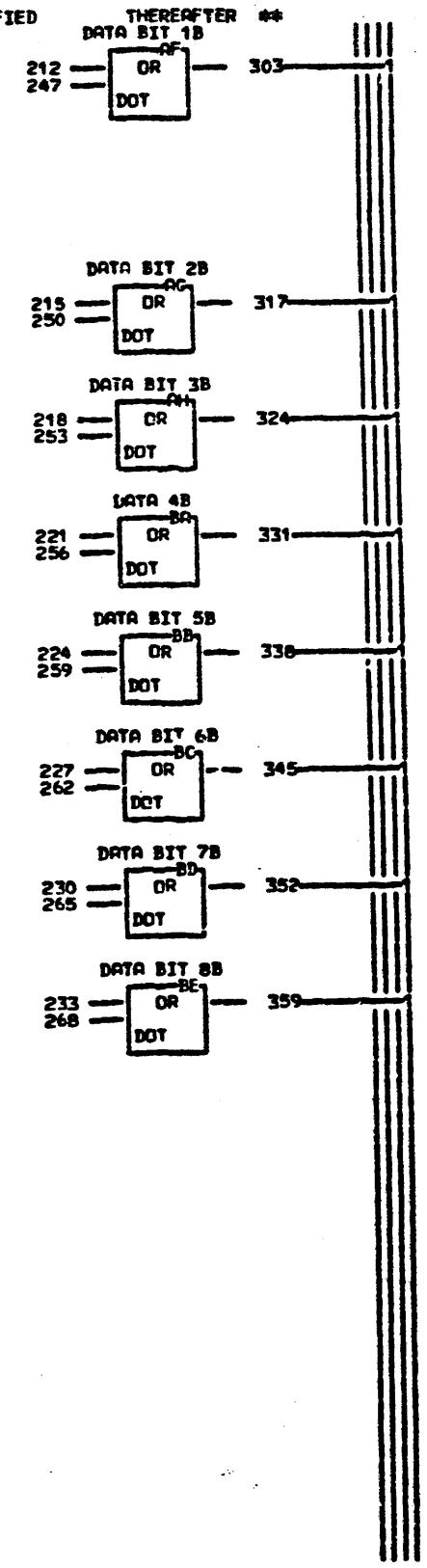
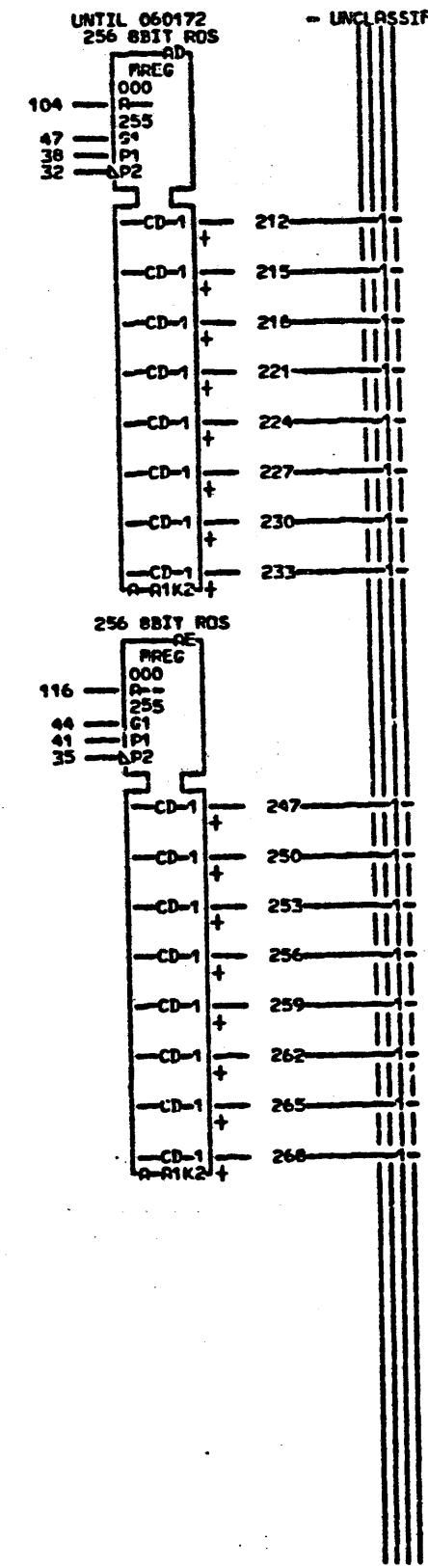
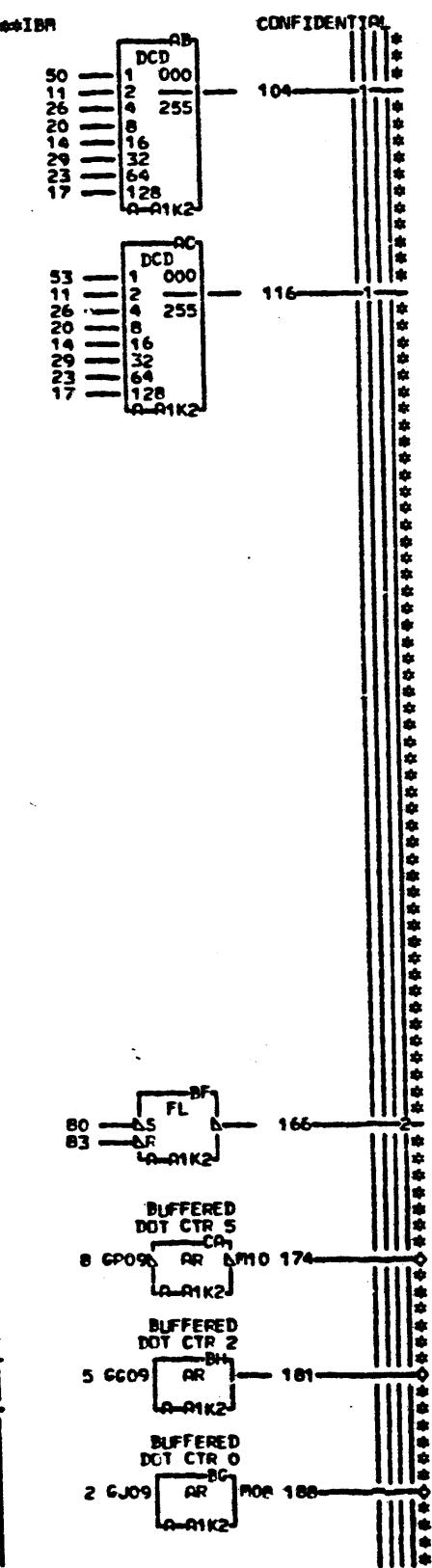
DATA BIT 6A ————— RC061-CH4

DATA BIT 7A ————— RC061-CP4

DATA BIT 8A ————— RC061-CH4

480 + 1920 CHAR. GEN.	
KATAKANA OR EXTENDED CHAR SET	
E.C.-HISTORY B. ROCHE 3277	
717473	FRAME 01 FC031
717492	IBA CORP. SDD FC041
717946	P.O. No. 1823813 005
DATE 10-02-72	LAST EC 718541

+ DOT 0 KF021BB2- 2
+ DOT 2 KF021DB2- 5
- DOT 5 KF021GB6- 8
+ ROS 4 & 5 BIT 7 RC011BD4- 11
+ ROS 4 & 5 BIT 4 RC011BC4- 14
+ ROS 4 & 5 BIT 1 RC011BK4- 17
+ ROS 4 & 5 BIT 5 RC011DD4- 20
+ ROS 4 & 5 BIT 2 RC011DG4- 23
+ ROS 4 & 5 BIT 6 RC011FE4- 26
+ ROS 4 & 5 BIT 3 RC011FH4- 29
+ ROS 4 READ OUT RC021AF4- 32
+ ROS 5 READ OUT RC021AJ4- 35
+ BIT 4 FROM LINE BUFFER PC021FD4- 38
- BIT 8 FROM LINE BUFFER PC021BL4- 41
+ ROS 5 CHIP ENABLE PC031BR4- 44
+ ROS 4 CHIP ENABLE PC031CB4- 47
+ ROS 4 TRACE SELECT PC031CH4- 50
+ ROS 3 TRACE SELECT PC031GX4- 53
+ DATA BIT 1A PC041CH4- 56
+ DATA BIT 2A PC041GJ4- 59
+ DATA BIT 3A PC041CK4- 62
+ DATA BIT 4A PC041GL4- 65
+ DATA BIT 5A PC041GR4- 68
+ DATA BIT 6A PC041GN4- 71
+ DATA BIT 7A PC041GP4- 74
+ DATA BIT 8A PC041GQ4- 77
- LINE CTR 0 PC081EC4- 80
- LINE CTR 8 PC081GD4- 83



005 RC051 RC061
005 RC061 005
188 + BUFFERED DOT CTR 0 RC111-CJ4
181 + BUFFERED DOT CTR 2 RC021-CX4
174 - BUFFERED DOT CTR 5 RC111-CL4
409 - DATA BIT 1 RC071-EB4
413 - DATA BIT 2 RC071-EB4
417 - DATA BIT 3 RC071-EC4
421 - DATA BIT 4 RC071-ED4
425 - DATA BIT 5 RC071-EF4
429 - DATA BIT 6 RC071-EG4
433 - DATA BIT 7 RC071-EH4
437 - DATA BIT 8 RC071-EJ4

420 + 1920 CHAR. GEN. KATAKANA OR EXTENDED CHAR SET -E.C.- HISTORY -B MARCH 3277	FRAME 01	RC051
717873 717892 717946		
	IBM CORP+SOD	RC061
DATF LAST EC 10-02-72 718541	Po.No 1823818	005

A-NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CIRCS.

IP TO PN 1563796 EC 717892

B-NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CIRCS.

PC051 SIM TO PN 1563797 EC 717892

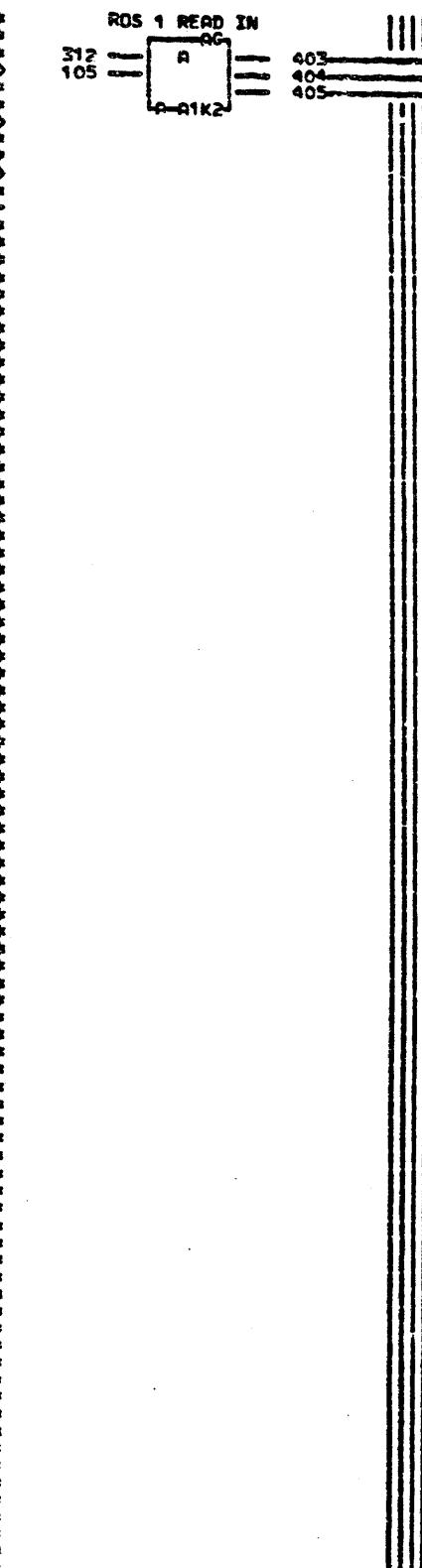
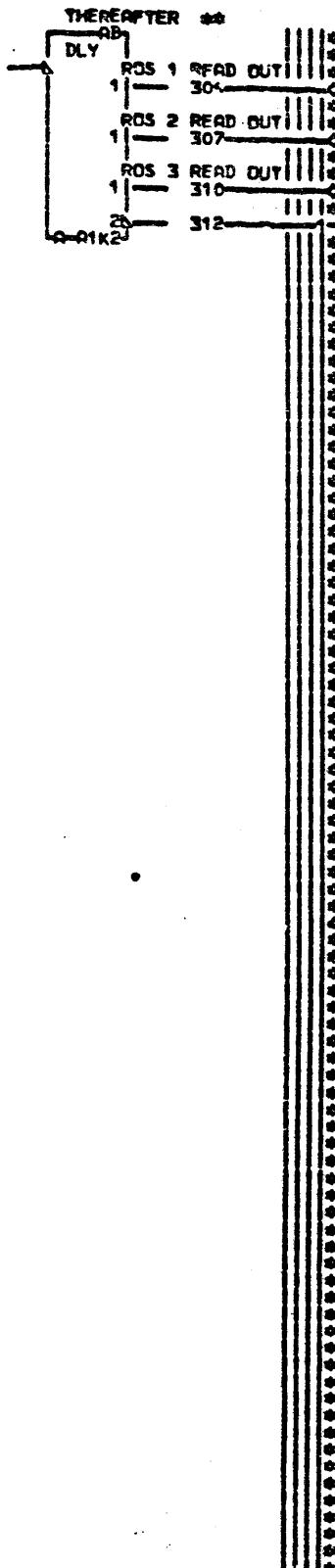
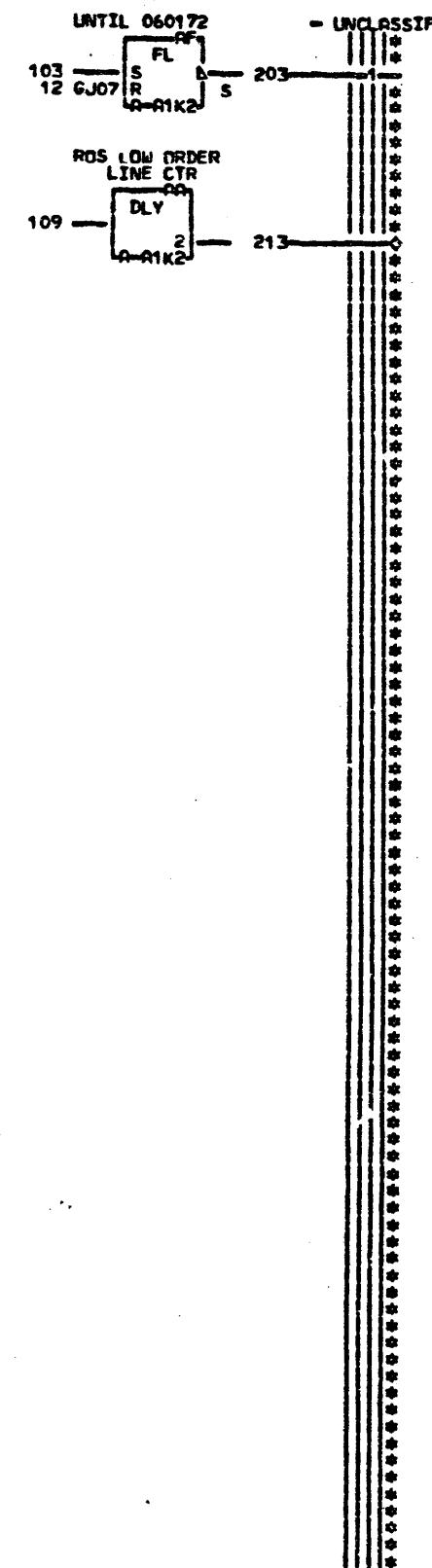
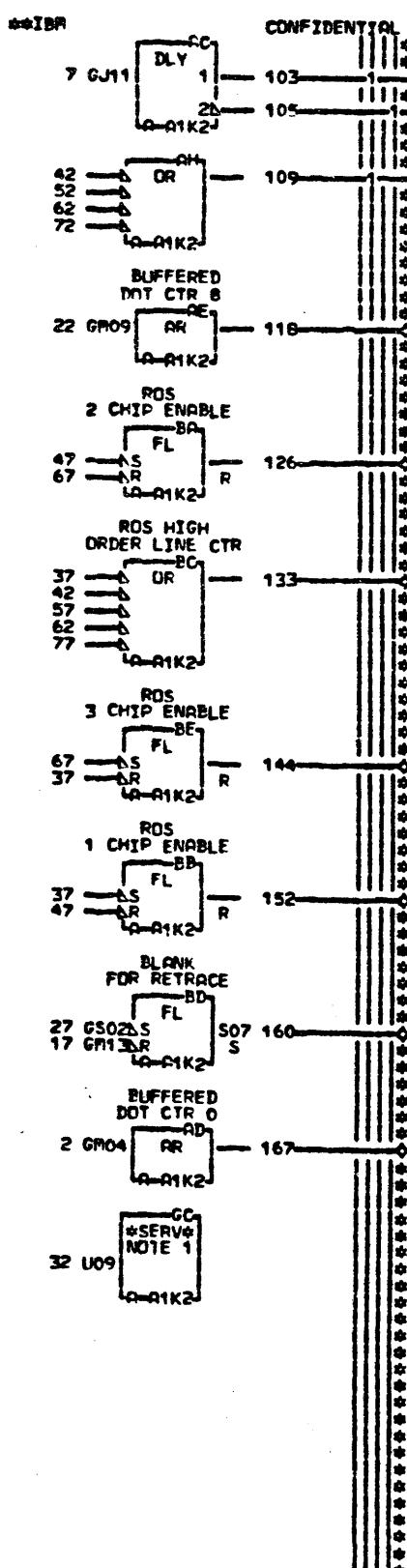
PC061 SIM TO PN 1563797 EC 717892

005

LOC. TYPE
R-R1K2 9123

PAGE VER EC LEV
RC051 005 718541
RC061 005 718541

+ DOT 0 → KF021BB2- 2
 + DOT 2 → KF021DB2- 7-1
 + DOT 6 → KF021EE2- 12-1
 - CLR BLANK FOR RETRACE → KF021EK4- 17-1
 4 DOT 8 → KF021GF2- 22-1
 - SET BLANK FOR RETRACE → KF181RL4- 27-1
 + FIRST 9 LINES → KF181GH2- 32-1
 - LINE CTR 0 → PC091EC4- 3-3
 - LINE CTR 1 → PC091ED4- 42-2
 - LINE CTR 2 → PC091EE4- 47-2
 - LINE CTR 3 → PC091EF4- 52-2
 - LINE CTR 4 → PC091EG4- 57-2
 - LINE CTR 5 → PC091GA4- 62-2
 - LINE CTR 6 → PC091GB4- 67-2
 - LINE CTR 7 → PC091GC4- 72-2
 - LINE CTR 8 → PC091GD4- 77-2



000 PC051 000 PC051 PC061
 167 + BUFFERED DOT CTR 0 → PC021-004
 118 + BUFFERED DOT CTR 0 → PC021-004
 304 + ROS 1 READ OUT → PC071-004
 307 + ROS 2 READ OUT → PC071-004
 310 + ROS 3 READ OUT → PC071-004
 403 + ROS 1 READ IN → PC071-004
 404 + ROS 2 READ IN → PC071-004
 405 + ROS 3 READ IN → PC071-004
 000 PC061 000
 126 + ROS 2 CHIP ENABLE → PC071-004
 152 + ROS 1 CHIP ENABLE → PC071-004
 160 + BLANK FOR RETRACE → PC091-004
 144 + ROS 3 CHIP ENABLE → PC071-004
 133 + ROS HIGH ORDER LINE CTR → PC071-004
 213 + ROS LOW ORDER LINE CTR → PC071-004

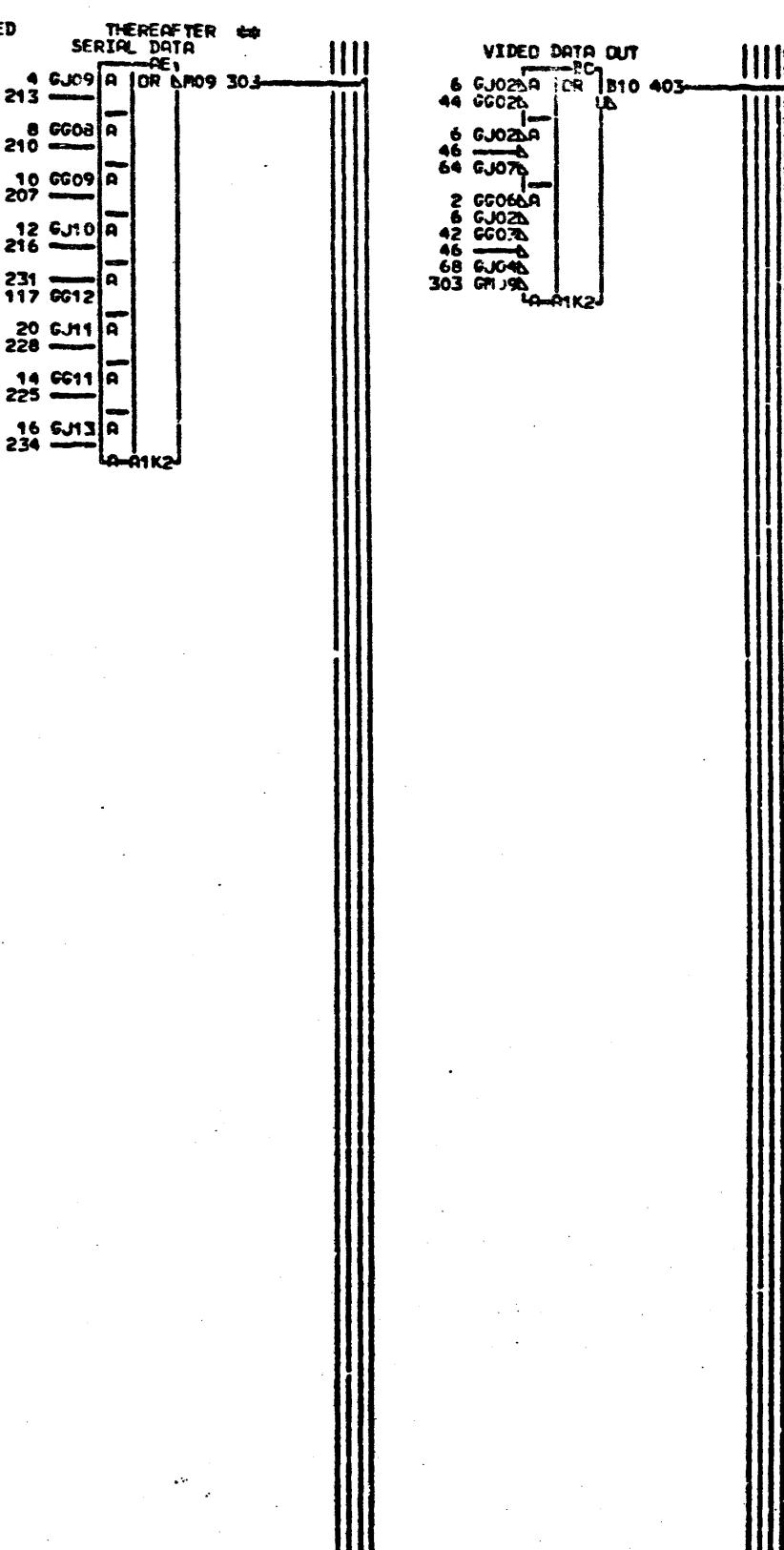
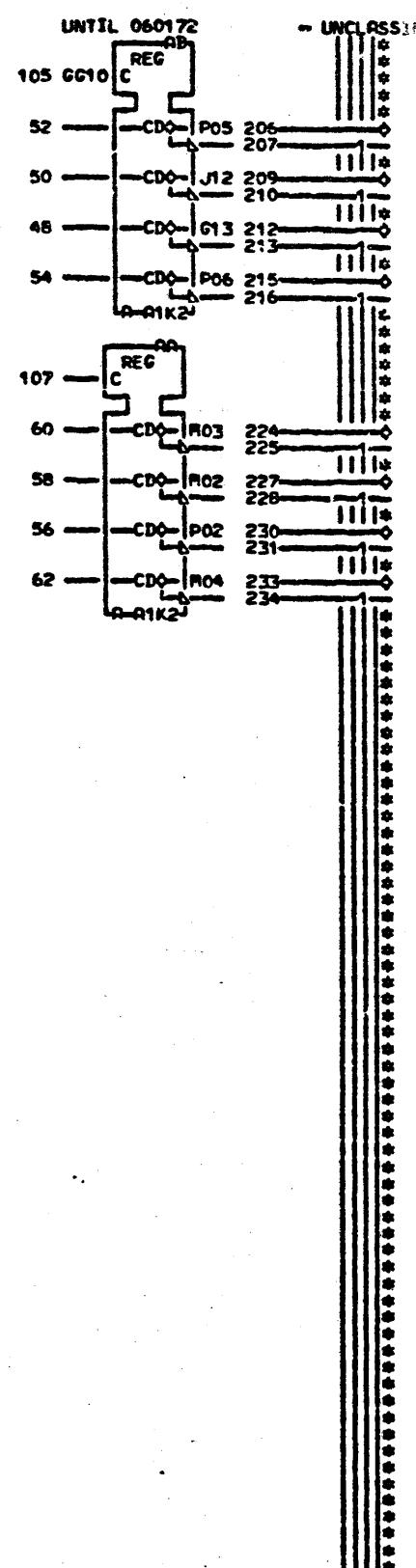
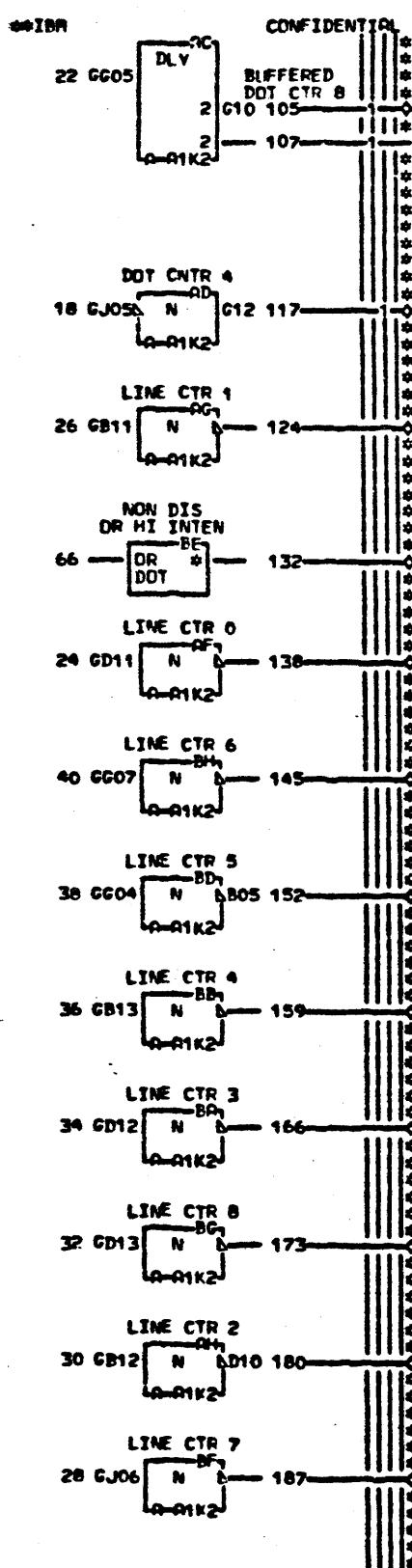
A. NOTE SEE REFERENCE PAGE
 27101 FOR CHARACTER GENERATOR
 CARDS
 B. NOTE ? SEE REFERENCE PAGE
 27101 FOR CHARACTER GENERATOR
 CARDS
 PC-1
 PC061
 000

LOC. TYPE
A-A1K2 9070

PAGE VER EC LEV
PC051 000 717492
PC061 000 717492

LINE BUFFER + CHAR. GEN.	PC051
-E.C.-HISTORY-B-PACH-3277	717473
FRAME	01
IBM CORP./KN	PC051
DATE LRST EC	06-01-72 717492
P.N. 1823816	000

+ STEP DOT CTR 1 KF011CA4- 2
 + DOT 0 KF021BB2- 4
 + BLANK FOR FIRST FRAME KF021BL4- 6
 + DOT 1 KF021CB2- 8
 + DCT 2 KF021DB2- 10
 + DOT 3 KF021EB2- 12
 + DOT 6 KF021EE2- 14
 + DOT 7 KF021EF2- 16
 - DOT KF021FB2- 18
 + DOT 5 KF021GB2- 20
 + DOT 8 KF021GF2- 22
 + LINE 0 KF121RE4- 24
 + LINE 1 KF121BQ2- 26
 + LINE 7 KF121BH2- 28
 + LINE 2 KF121CR2- 30
 + LINE 8 KF121CH2- 32
 + LINE 3 KF121DR2- 34
 + LINE 4 KF121FR2- 36
 + LINE 5 KF121FA2- 38
 + LINE 6 KF121GA2- 40
 + BLANK CRT AT VIDEO OUTPUT KF141GR4- 42
 - UNBLANK IND KF161RE4- 44
 + RTF BLNK OR NOT 1ST 9 LNS PC031CP4- 46
 - DATA BIT 1 PC061EP4- 48
 - DATA BIT 2 PC061EP4- 50
 - DATA BIT 3 PC061EC4- 52
 - DATA BIT 4 PC061ED4- 54
 - DATA BIT 5 PC061EF4- 56
 - DATA BIT 6 PC061EG4- 58
 - DATA BIT 7 PC061EH4- 60
 - DATA BIT 8 PC061EJ4- 62
 - CURSOR OR FORCE UNBLANK PC111GC4- 64
 + NON DIS OR HI INTEN PC111GP4- 66
 + CSR LN FRM LB PC131AP4- 68



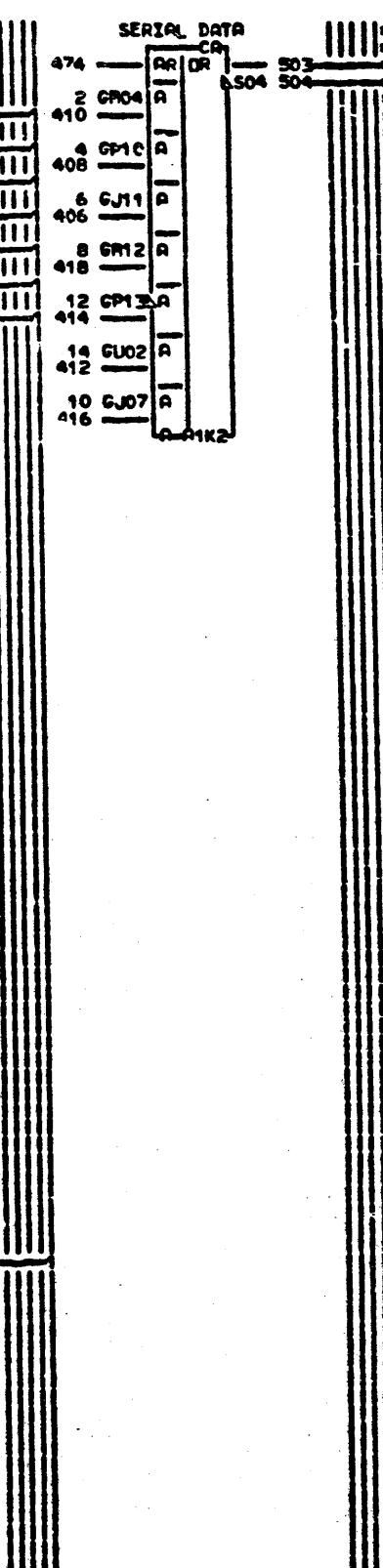
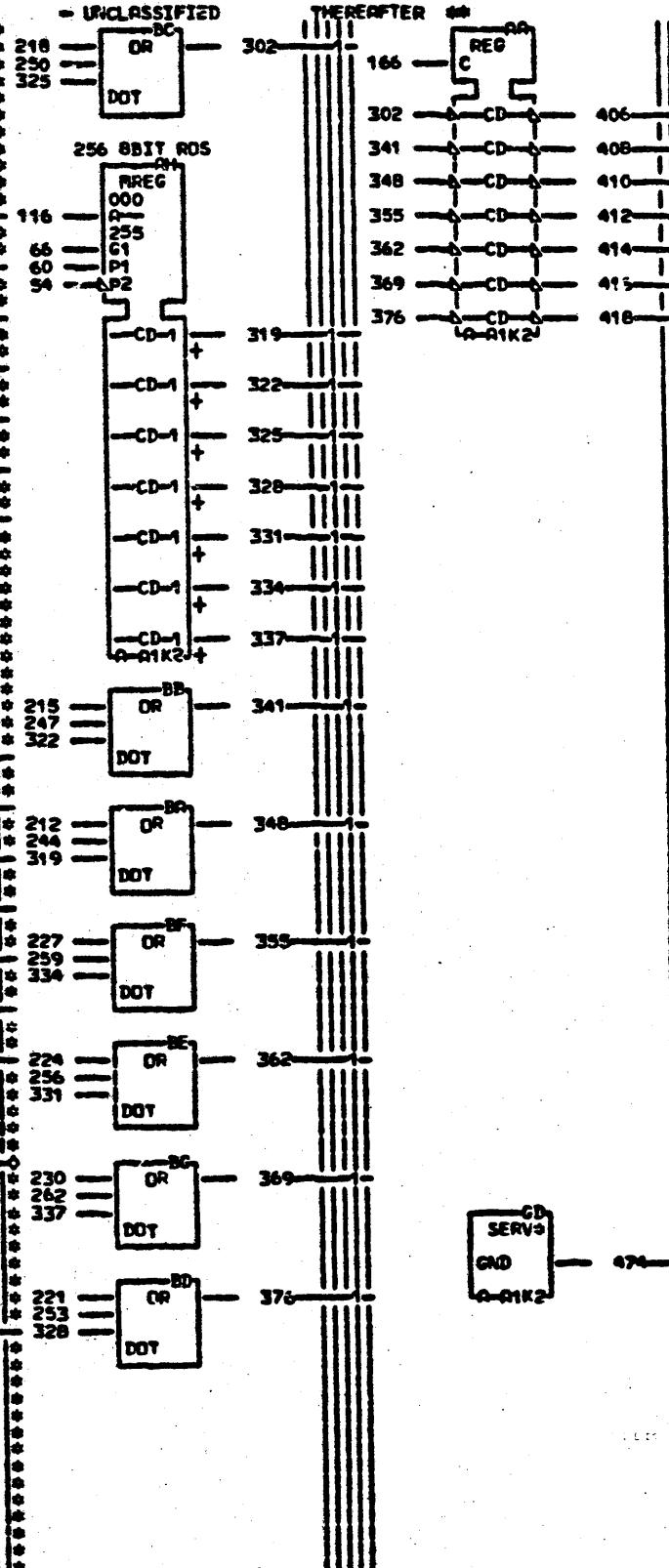
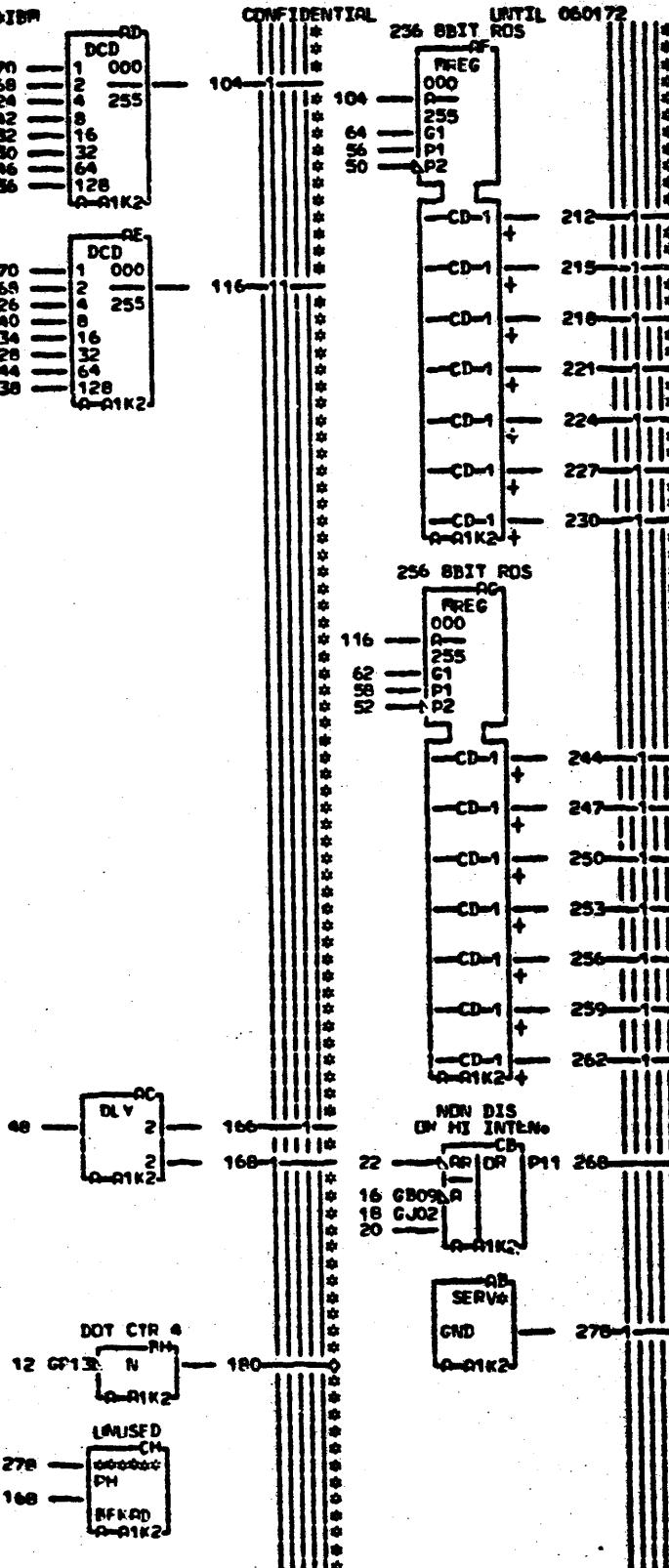
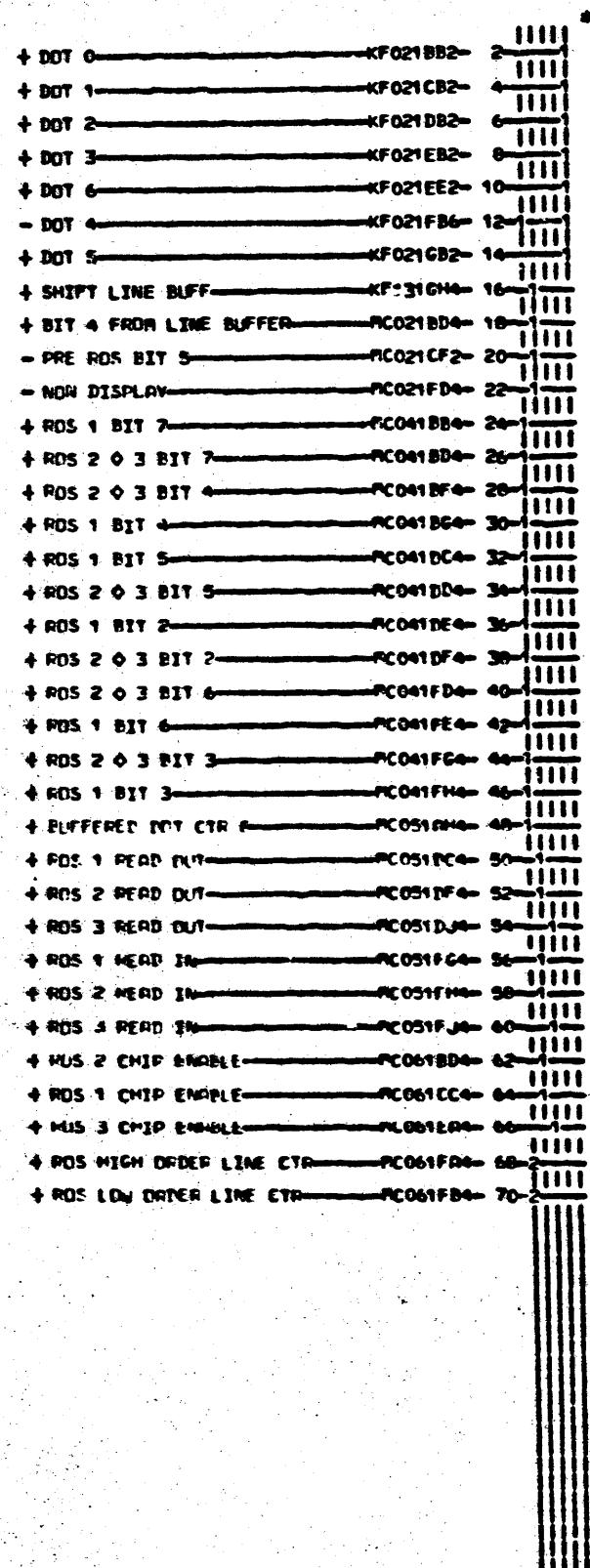
005 PC071 005 PC071 005 PC071
 105 + BUFFERED DOT CTR 8 PC111-BN4
 212 016 + TEST BIT 1 C02
 209 017 + TEST BIT 2 C02
 206 018 + TEST BIT 3 C02
 215 019 + TEST BIT C02
 230 020 + TEST BIT C02
 227 021 + TEST BIT C02
 224 022 + TEST BIT C02
 233 023 + TEST BIT C02
 117 + DOT CTR 4 PC111-BN4
 005 PC081 005
 138 - LINE CTR 0 4PC031 4PC061 ED4
 124 - LINE CTR 1 PC031-ED4
 180 - LINE CTR 2 4PC031 4PC131 ED4
 166 - LINE CTR 3 PC031-ED4
 159 - LINE CTR 4 PC031-ED4
 403 + VIDEO DATA OUT PC091-FR4
 152 - LINE CTR 5 PC031-ED4
 132 + NON DIS OR HI INTEN KF061-G84
 167 - LINE CTR 7 PC031-ED4
 173 - LINE CTR 8 4PC031 4PC061 ED4
 145 - LINE CTR 6 4PC031 4PC061 ED4

A-NOTE SEE REFERENCE PAGE
 Z2101 FOR CHARACTER
 GENERATOR CARDS.
 SIM TO PN 156378A EC 717492
 PC071 B-1 JTF SEE REFERENCE PAGE
 Z2101 FOR CHARACTER
 GENERATOR CARDS.
 PC081 SIM TO PN 1563789 EC 717946
 005

LOC. TYPE
A-A1K2 9123

PAGE VER EC LEV
PC071 005 718541
PC081 005 718341

80 + 1920 CHAR. GEN.		
KATAKANA OR EXTENDED CHAR SET		
E.C.-HISTORY	B-RACH-3277	
717473		
716959		
717452		
717946		
DATE LAST EC	01	
10-02-72 718541	IBR CORP,KN	PC071
	Po.N. 1823823	PC081
	005	



A. NOTE SEE REFERENCE PAGE
Z2101 FOR CHARACTER GENERATOR
CARDS

B. NOTE SEE REFERENCE PAGE
Z2101 FOR CHARACTER GENERATOR
CARDS

PC071

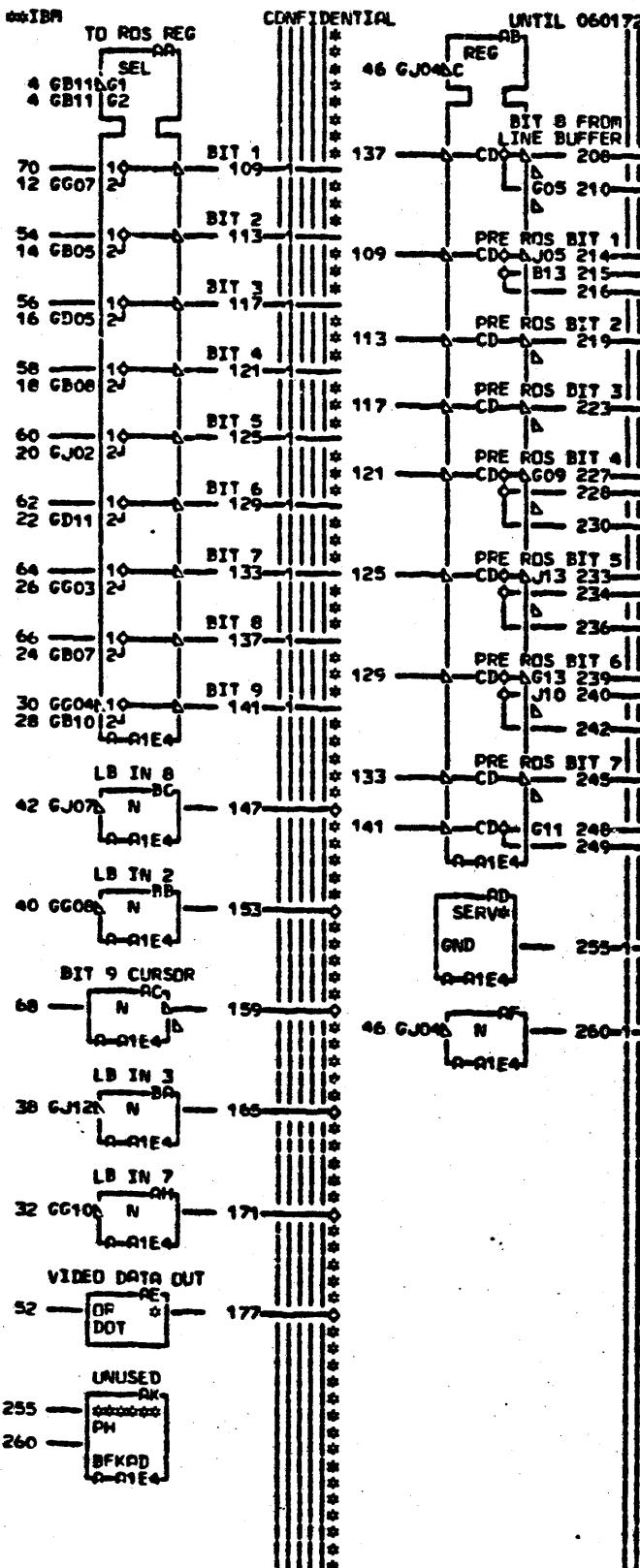
000

LOC. TYPE
R001A2 9070

PAGE VER EC LEV
PC071 000 717492
PC081 000 717496

LINE BUFFER + CHAR. GEN.	
E.C.-HISTORY	S. PACH-3277
717473	717492
FRAM 01	PC071
IBR CORP/EN	PC081
DATE LAST EC	PC081
08-05-72 717496	PC081
IPM# 1823821	000

- CHAR 0 KF031CA4- 2
 + LD LB GATES KF131AH4- 4
 + SHIFT LINE BUFF KF131GH4- 6
 - FORCE UNBLANK LINE KF141EL4- 8
 - ROW 0 KF151GE4- 10
 + FETS OUT BIT 1 FB131AB4- 12
 + FETS OUT BIT 2 FB131AC4- 14
 + FETS OUT BIT 3 FB131AD4- 16
 + FETS OUT BIT 4 FB131AE4- 18
 + FETS OUT BIT 5 FB141BA4- 20
 + FETS OUT BIT 6 FB141BB4- 22
 + FETS OUT BIT 7 FB141BC4- 24
 + FETS OUT BIT 8 FB141BD4- 26
 + FETS OUT BIT 9 FB141CB4- 28
 - BIT 9 CURSOR FC011AB4- 30
 - PRE ROS BIT 7 FC021EA4- 32
 + BIT 5 FROM LINE BUFFER FC021BC4- 34
 + BIT 4 FROM LINE BUFFER FC021BD4- 36
 - PRE ROS BIT 3 FC021BE4- 38
 - PRE ROS BIT 2 FC021BF4- 40
 - BIT 6 FROM LINE BUFFER FC021BL4- 42
 + BUFFERED DOT CTR 0 FC061CJ4- 44
 - BUFFERED DOT CTR 5 FC061CL4- 46
 + BUFFERED DOT CTR 6 FC071BQ4- 48
 + DOT CTR 4 FC071RJ4- 50
 + VIDEO DATA OUT FC081FA4- 52
 + LINE BUFFER DATA OUT BIT 2 FC121DC4- 54
 + LINE BUFFER DATA OUT BIT 3 FC121DD4- 56
 + LINE BUFFER DATA OUT BIT 4 FC121DE4- 58
 + LINE BUFFER DATA OUT BIT 5 FC121DF4- 60
 + LINE BUFFER DATA OUT BIT 6 FC121DJ4- 62
 + LINE BUFFER DATA OUT BIT 7 FC121DK4- 64
 + LINE BUFFER DATA OUT BIT 8 FC121DL4- 66
 + LINE BUFFER DATA OUT BIT 9 FC121DM4- 68
 + LINE BUFFER DATA OUT BIT 1 FC121DN4- 70
 + CSR LN FRM LB FC131AQ4- 72



LOC. TYPE
A-A1E4 2227

PAGE VFR EC LEV
FC091 005 717946
RC111 005 717946

A. NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CARDS.
SIM TO PN 1563790 EC 717946

B. NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CARDS.

005

000 FC091 005 RC091 RC111
 159 - BIT 9 CURSOR RC011-B84
 177 + VIDEO DATA OUT KF201-F84
 000 RC111 000
 245 - PRE ROS BIT 7 RC021-B82
 239 - PRE ROS BIT 6 RC011-B82
 240 + BIT 6 FROM LINE BUFFER RC021-B86
 233 - PRE ROS BIT 5 RC011-B82
 234 + BIT 5 FROM LINE BUFFER RC021-B86
 227 - PRE ROS BIT 4 RC011-B82
 228 + BIT 4 FROM LINE BUFFER RC021-B86
 223 - PRE ROS BIT 3 RC021-B82
 219 - PRE ROS BIT 2 RC021-B82
 208 - BIT 8 FROM LINE BUFFER RC021-B86
 210 + BIT 8 FROM LINE BUFFER RC021-B86
 248 + BIT 9 CURSOR B86
 214 - PRE ROS BIT 1 RC011-B82
 215 + BIT 1 FROM LINE BUFFER B86
 216 + LB IN 1 RC121-C84
 171 + LB IN 7 RC121-B84
 242 + LB IN 6 RC121-B84
 236 + LB IN 5 RC121-B84
 230 + LB IN 4 RC121-B84
 165 + LB IN 3 RC121-B84
 153 + LB IN 2 RC121-B84
 147 + LB IN 0 RC121-B84
 249 + LB IN 9 RC121-B84
 504 - CURSOR OR FORCE UNBLANK RC081-G84
 315 + NON DIS OR HI INTEN RC081-G84

1920 LINE BUFFER EXTENDED CHAR SETS	EC HISTORY	RC463277
717473		
716959		
717492	FRAME 01	RC091
DATE LAST EC	IBR CDRP.SDD	RC111
08-05-72 717946	Page 1823828	005

+ STEP DOT CTR 1 → KF011GA4- 2-
 + BLANK FOR FIRST FRAME → KF021BL4- 7-
 + LINE 0 → KF121RE4- 12-
 + LINE 1 → KF121RQ2- 17-
 + LINE 2 → KF121RM2- 22-
 + LINE 3 → KF121CQ2- 27-
 + LINE 4 → KF121CQ2- 32-
 + LINE 5 → KF121DQ2- 37-
 + LINE 6 → KF121ER2- 42-
 + LINE 7 → KF121FQ2- 47-
 + LINE 8 → KF121GQ2- 52-
 + BLANK CTR AT VIDEO OUTPUT → KF141SP4- 57-
 - UNLINK IND → KF161BE4- 62-
 + CSR LINE → KF181FD4- 67-
 - CURSOR OR FORCE INBLANK → FC021GC4- 72-
 + BLANK FOR RETRACE → FC061DR4- 77-
 + SERIAL DATA → FC081FA4- 82-

001 IBM

CONFIDENTIAL

UNTIL 060172

- UNCLASSIFIED
LINE CTR 8

THEREAFTER **

32 GU13 N 103
A-A1K2

LINE CTR 2

27 GS03 N 110
A-A1K2

LINE CTR 7

22 GS13 N 117
A-A1K2

LINE CTR 1

17 GU07 N 124
A-A1K2

LINE CTR 0

12 GU05 N 131
A-A1K2

VIDEO DATA OUT

7 GU06A DR S09 138
62 GS06A U
7 GU06B
72 GS07B
2 GU06A
7 GU06B
57 GS05S
67 GM11B
77 GS07C
82 A-A1K2

LINE CTR 6

52 GU12 N 155
A-A1K2

LINE CTR 5

47 GS11 N 161
A-A1K2

LINE CTR 4

42 GU10 N 167
A-A1K2

LINE CTR 3

37 GS10 N 173
A-A1K2

000 FC091 FC091
131 - LINE CTR 0 → FC061-ED4

124 - LINE CTR 1 → FC061-ED4

110 - LINE CTR 2 → FC061-EE4

173 - LINE CTR 3 → FC061-EF4

167 - LINE CTR 4 → FC061-EG4

138 + VIDEO DATA OUT → KF201-FA4

161 - LINE CTR 5 → FC061-GH4

195 - LINE CTR 6 → FC061-GH4

117 - LINE CTR 7 → FC061-GC4

103 - LINE CTR 8 → FC061-GD4

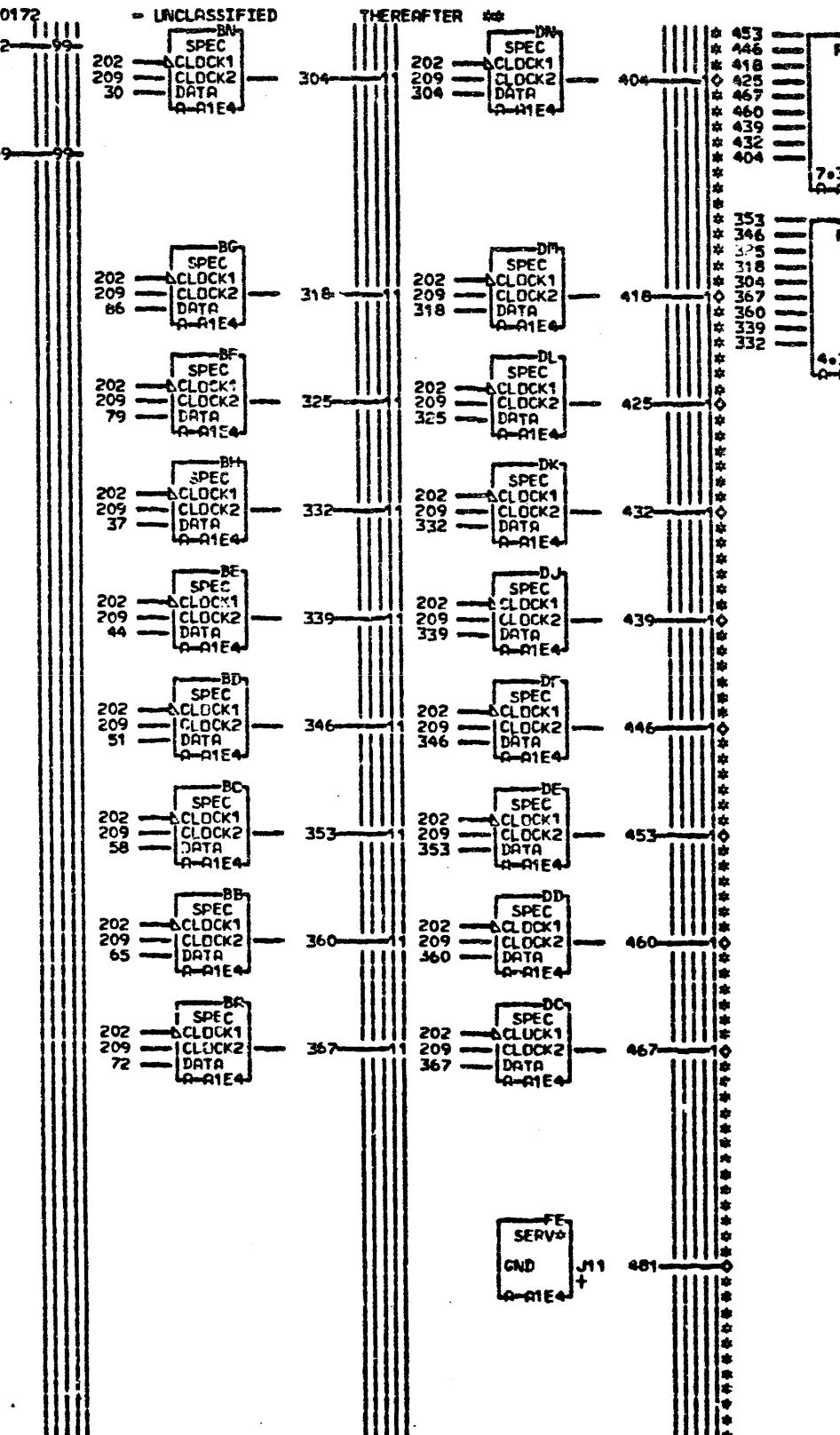
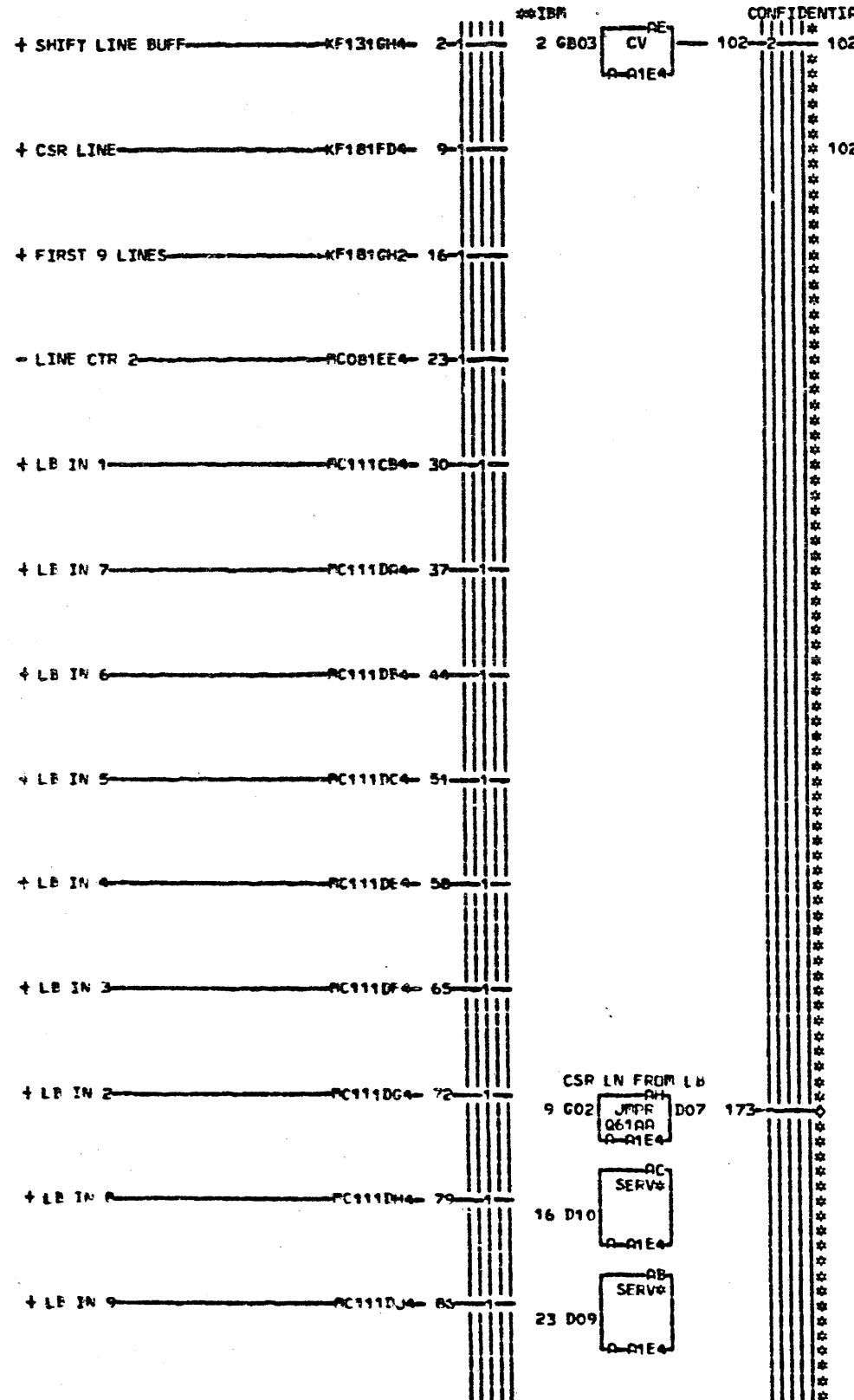
NOTE SEE REFERENCE PAGE
Z2101 FOR CHARACTER GENERATOR
CARDS

LDC TYPE
A-A1K2 9070

PAGE VER EC LEV
FC091 000 717946

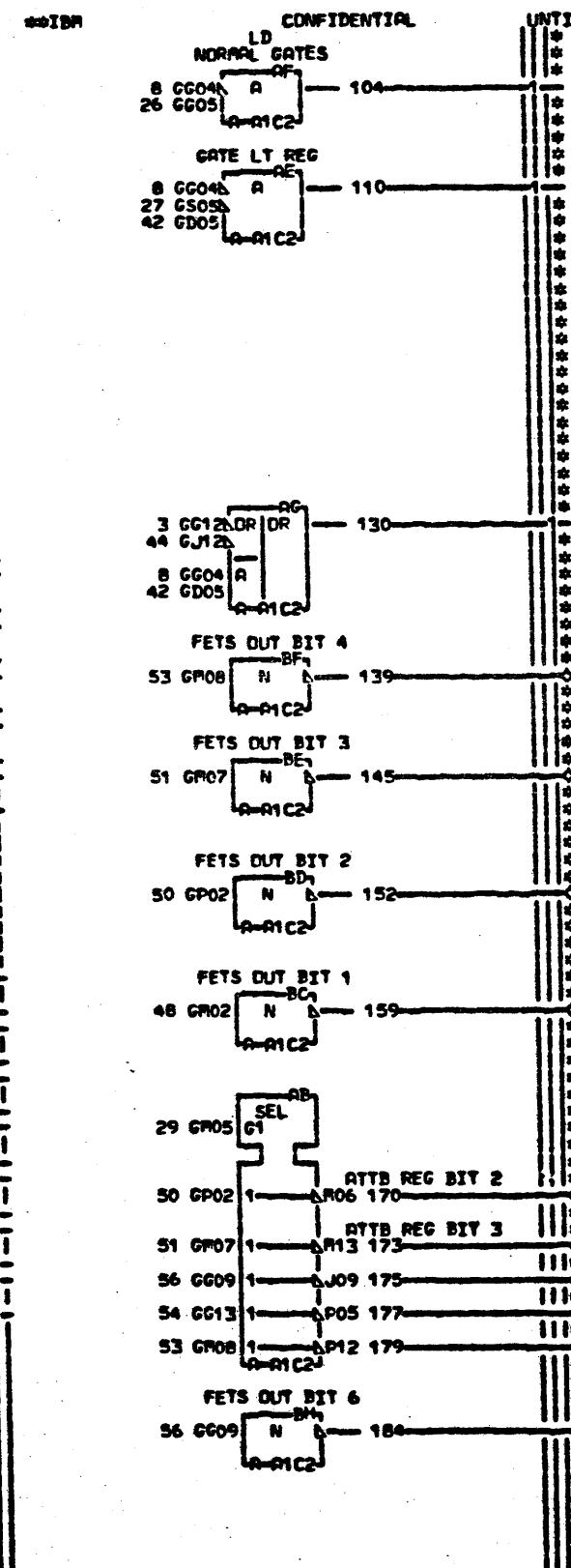
FC091
FC091
000

LINE BUFFER + CHAR. GEN.		FRAME 01	FC091
E.C.-HISTORY	D-PROG-3277		
717473	717492		
DATE LAST EC	IBA CORP-KN		
08-05-72 717946	P.O. 1823826		
	000		



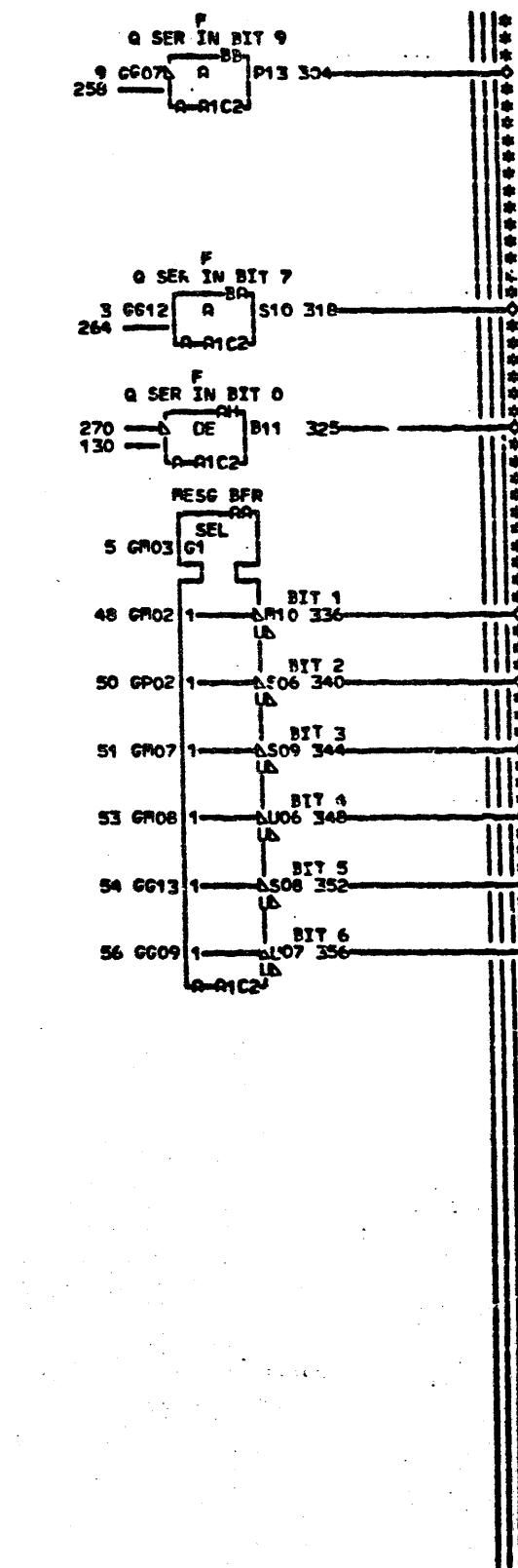
** IBM 005 PC121 006 PC131
467 + LINE BUFFER DATA OUT BIT 2 → DCA
460 + LINE BUFFER DATA OUT BIT 3 → D04
453 + LINE BUFFER DATA OUT BIT 4 → D06
446 + LINE BUFFER DATA OUT BIT 5 → D04
439 + LINE BUFFER DATA OUT BIT 6 → D06
432 + LINE BUFFER DATA OUT BIT 7 → D06
425 + LINE BUFFER DATA OUT BIT 8 → D06
418 + LINE BUFFER DATA OUT BIT 9 → D06
404 + LINE BUFFER DATA OUT BIT 1 → D06
481 - 1920 + 480 → PC031-FE4
** IBM 006
173 + CSR LN FROM LB → D06
480 481 482
483 484
485 486
487 488
489 490
491 492
493 494
495 496
497 498
499 500
501 502
503 504
505 506
507 508
509 510
511 512
513 514
515 516
517 518
519 520
521 522
523 524
525 526
527 528
529 530
531 532
533 534
535 536
537 538
539 540
541 542
543 544
545 546
547 548
549 550
551 552
553 554
555 556
557 558
559 560
561 562
563 564
565 566
567 568
569 570
571 572
573 574
575 576
577 578
579 580
581 582
583 584
585 586
587 588
589 590
591 592
593 594
595 596
597 598
599 600
601 602
603 604
605 606
607 608
609 610
611 612
613 614
615 616
617 618
619 620
621 622
623 624
625 626
627 628
629 630
631 632
633 634
635 636
637 638
639 640
641 642
643 644
645 646
647 648
649 650
651 652
653 654
655 656
657 658
659 660
661 662
663 664
665 666
667 668
669 670
671 672
673 674
675 676
677 678
679 680
681 682
683 684
685 686
687 688
689 690
691 692
693 694
695 696
697 698
699 700
701 702
703 704
705 706
707 708
709 710
711 712
713 714
715 716
717 718
719 720
721 722
723 724
725 726
727 728
729 72101
72102
72103
72104
72105
72106
72107
72108
72109
72110
72111
72112
72113
72114
72115
72116
72117
72118
72119
72120
72121
72122
72123
72124
72125
72126
72127
72128
72129
72130
72131
72132
72133
72134
72135
72136
72137
72138
72139
72140
72141
72142
72143
72144
72145
72146
72147
72148
72149
72150
72151
72152
72153
72154
72155
72156
72157
72158
72159
72160
72161
72162
72163
72164
72165
72166
72167
72168
72169
72170
72171
72172
72173
72174
72175
72176
72177
72178
72179
72180
72181
72182
72183
72184
72185
72186
72187
72188
72189
72190
72191
72192
72193
72194
72195
72196
72197
72198
72199
72100
72101
72102
72103
72104
72105
72106
72107
72108
72109
72110
72111
72112
72113
72114
72115
72116
72117
72118
72119
72120
72121
72122
72123
72124
72125
72126
72127
72128
72129
72130
72131
72132
72133
72134
72135
72136
72137
72138
72139
72140
72141
72142
72143
72144
72145
72146
72147
72148
72149
72150
72151
72152
72153
72154
72155
72156
72157
72158
72159
72160
72161
72162
72163
72164
72165
72166
72167
72168
72169
72170
72171
72172
72173
72174
72175
72176
72177
72178
72179
72180
72181
72182
72183
72184
72185
72186
72187
72188
72189
72190
72191
72192
72193
72194
72195
72196
72197
72198
72199
72100
72101
72102
72103
72104
72105
72106
72107
72108
72109
72110
72111
72112
72113
72114
72115
72116
72117
72118
72119
72120
72121
72122
72123
72124
72125
72126
72127
72128
72129
72130
72131
72132
72133
72134
72135
72136
72137
72138
72139
72140
72141
72142
72143
72144
72145
72146
72147
72148
72149
72150
72151
72152
72153
72154
72155
72156
72157
72158
72159
72160
72161
72162
72163
72164
72165
72166
72167
72168
72169
72170
72171
72172
72173
72174
72175
72176
72177
72178
72179
72180
72181
72182
72183
72184
72185
72186
72187
72188
72189
72190
72191
72192
72193
72194
72195
72196
72197
72198
72199
72100
72101
72102
72103
72104
72105
72106
72107
72108
72109
72110
72111
72112
72113
72114
72115
72116
72117
72118
72119
72120
72121
72122
72123
72124
72125
72126
72127
72128
72129
72130
72131
72132
72133
72134
72135
72136
72137
72138
72139
72140
72141
72142
72143
72144
72145
72146
72147
72148
72149
72150
72151
72152
72153
72154
72155
72156
72157
72158
72159
72160
72161
72162
72163
72164
72165
72166
72167
72168
72169
72170
72171
72172
72173
72174
72175
72176
72177
72178
72179
72180
72181
72182
72183
72184
72185
72186
72187
72188
72189
72190
72191
72192
72193
72194
72195
72196
72197
72198
72199
72100
72101
72102
72103
72104
72105
72106
72107
72108
72109
72110
72111
72112
72113
72114
72115
72116
72117
72118
72119
72120
72121
72122
72123
72124
72125
72126
72127
72128
72129
72130
72131
72132
72133
72134
72135
72136
72137
72138
72139
72140
72141
72142
72143
72144
72145
72146
72147
72148
72149
72150
72151
72152
72153
72154
72155
72156
72157
72158
72159
72160
72161
72162
72163
72164
72165
72166
72167
72168
72169
72170
72171
72172
72173
72174
72175
72176
72177
72178
72179
72180
72181
72182
72183
72184
72185
72186
72187
72188
72189
72190
72191
72192
72193
72194
72195
72196
72197
72198
72199
72100
72101
72102
72103
72104
72105
72106
72107
72108
72109
72110
72111
72112
72113
72114
72115
72116
72117
72118
72119
72120
72121
72122
72123
72124
72125
72126
72127
72128
72129
72130
72131
72132
72133
72134
72135
72136
72137
72138
72139
72140
72141
72142
72143
72144
72145
72146
72147
72148
72149
72150
72151
72152
72153
72154
72155
72156
72157
72158
72159
72160
72161
72162
72163
72164
72165
72166
72167
72168
72169
72170
72171
72172
72173
72174
72175
72176
72177
72178
72179
72180
72181
72182
72183
72184
72185
72186
72187
72188
72189
72190
72191
72192
72193
72194
72195
72196
72197
72198
72199
72100
72101
72102
72103
72104
72105
72106
72107
72108
72109
72110
72111
72112
72113
72114
72115
72116
72117
72118
72119
72120
72121
72122
72123
72124
72125
72126
72127
72128
72129
72130
72131
72132
72133
72134
72135
72136
72137
72138
72139
72140
72141
72142
72143
72144
72145
72146
72147
72148
72149
72150
72151
72152
72153
72154
72155
72156
72157
72158
72159
72160
72161
72162
72163
72164
72165
72166
72167
72168
72169
72170
72171
72172
72173
72174
72175
72176
72177
72178
72179
72180
72181
72182
72183
72184
72185
72186
72187
72188
72189
72190
72191
72192
72193
72194
72195
72196
72197
72198
72199
72100
72101
72102
72103
72104
72105
72106
72107
72108
72109
72110
72111
72112
72113
72114
72115
72116
72117
72118
72119
72120
72121
72122
72123
72124
72125
72126
72127
72128
72129
72130
72131
72132
72133
72134
72135
72136
72137
72138
72139
72140
72141
72142
72143
72144
72145
72146
72147
72148
72149
72150
72151
72152
72153
72154
72155
72156
72157
72158
72159
72160
72161
72162
72163
72164
72165
72166
72167
72168
72169
72170
72171
72172
72173
72174
72175
72176
72177
72178
72179
72180
72181
72182
72183
72184
72185
72186
72187
72188
72189
72190
72191
72192
72193
72194
72195
72196
72197
72198
72199
72100
72101
72102
72103
72104
72105
72106
72107
72108
72109
72110
72111
72112
72113
72114
72115
72116
72117
7

+ INPUT PARITY PREDICT KAO11GK4- 2
 - DELETE PDT BIT 7 KAO31GH4- 3
 + LOAD MESSAGE BUFFER KAO51FG4- 5
 - LOAD I'D DATA KAO71AE4- 6
 + INSERT NULL KAO81DB4- 8-1
 + DELETE CSR BIT 9 KAO81DG4- 9
 - INSERT CURSOR NORF KAO81EF4- 11
 + SR BIT 6 KAO12BH2- 12
 + SR BIT 11 KAO12CC2- 14
 + SR BIT 5 KAO12CD2- 15
 + SR BIT 10 KAO12DC2- 17
 + SR BIT 4 KAO12DH2- 18
 + SR BIT 9 KAO12EC2- 20
 + SR BIT 3 KAO12EH2- 21
 + SR BIT 8 KAO12FC2- 23
 + SR BIT 7 KAO12GC2- 24
 + NORMAL GATES KFO51FH4- 26-7
 - LOAD LPTF REG KFO51FJ4- 27-8
 + LD ATB REG FROM FETS KF131DE4- 29-11
 + KB P BIT TO BUFF KPO21AR4- 30
 + KEYED BIT 2 KPO21BR4- 32
 + KEYBD BIT 3 KPO21BS4- 33
 + KEYBD BIT 1 KPO21BT4- 35
 + KEYB BIT 7 KPO31BF4- 36
 + KEYB BIT 5 KPO31BG4- 38
 + KEYD BIT 6 KPO31BH4- 39
 + KEYD BIT 4 KPO31BJ4- 41
 - LD KB TO FETS KPA11AK4- 42-22
 - PDT LP BIT 7 KPA21AG4- 44-12
 - FS KPO21AP2- 45-2
 + FETS OUT BIT 0 KPE131AC4- 47-11
 + FETS OUT BIT 1 KPE131AB4- 48-11
 + FETS OUT BIT 2 KPE131AC4- 50-21
 + FETS OUT BIT 3 KPE131AD4- 51-21
 + FETS OUT BIT 4 KPE131AE4- 53-21
 + FETS OUT BIT 5 KPE141BA4- 54-21
 + FETS OUT BIT 6 KPE141BB4- 56-21
 + FETS OUT BIT 7 KPE141BD4- 57-21
 + FETS OUT BIT 8 KPE141CA4- 59-21
 + FETS OUT BIT 9 KPE141CB4- 60-21
 - FS PG021O32- 62-2
 + LATE REG BIT 0 PG051EB2- 64-1
 + LATE REG BIT 1 PG051EC2- 66-1
 + LATE REG BIT 3 PG051ED2- 68-1
 + LATE REG BIT 4 PG061CA2- 69-1
 + LATE REG BIT 5 PG061CR2- 71-1
 + LATE REG BIT 6 PG061CD2- 72-1
 + LATE REG BIT 7 PG061CE2- 74-1
 + LATE REG BIT 8 PG061CF2- 75-1
 + LATE REG BIT 9 PG061CH2- 77-1



LDC TYPE
PG01C2 7066

PAGE VER EC LEV
PG011 000 717473
PG021 001 717473
PG031 000 717473



B051A TO PN 1563792 EC 717473

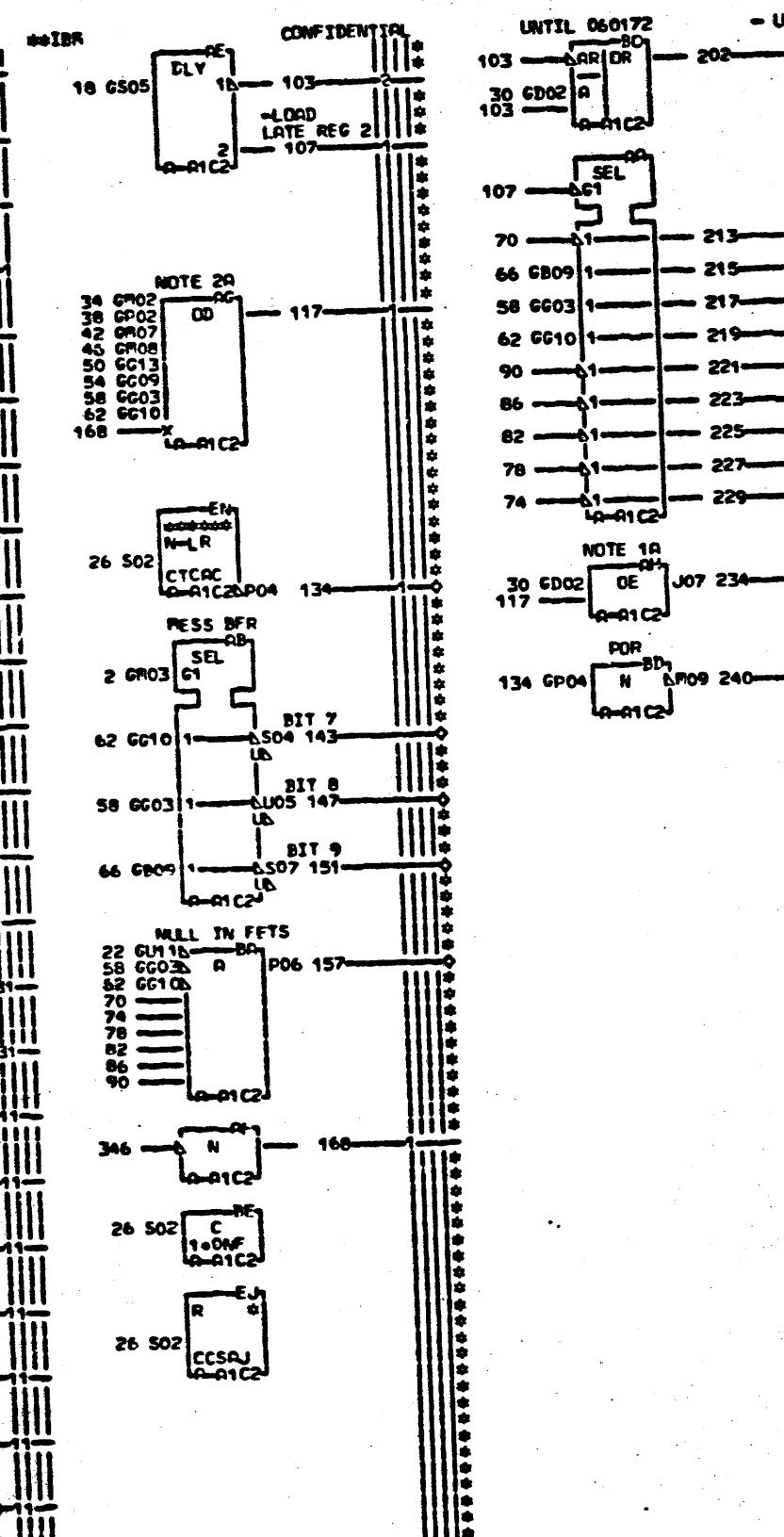
PG011
PG031
001

001 PG011 PG031
 218 + F Q SER IN BIT 1 PG011-ED4
 225 + F Q SER IN BIT 2 PG011-EG4
 232 + F Q SER IN BIT 3 PG011-EJ4
 239 + F Q SER IN BIT 4 PG011-EL4
 325 + F Q SER IN BIT 0 PG011-EC4
 440 PG021 000
 211 + F Q SER IN BIT 5 PG021-FB4
 246 + F Q SER IN BIT 6 PG021-FD4
 253 + F Q SER IN BIT 7 4K121 4KB021
 318 + F Q SER IN BIT 8 4K121 4KB021
 304 + F Q SER IN BIT 9 PG021-GL4
 440 PG031 000
 150 - FETS OUT BIT 1 4KG041 4KG051
 152 - FETS OUT BIT 2 4KG041 4KG051
 145 - FETS OUT BIT 3 4KG041 4KG051
 139 - FETS OUT BIT 4 4KG041 4KG051
 278 - FETS OUT BIT 5 4KG041 4KG051
 184 - FETS OUT BIT 6 4KG041 4KG051
 336 - FESG BFR BIT 1 KA11-BB4
 340 - FESG BFR BIT 2 KA11-BB4
 344 - FESG BFR BIT 3 KA11-BB4
 348 - FESG BFR BIT 4 KA11-BD4
 352 - FESG BFR BIT 5 KA11-BE4
 356 - FESG BFR BIT 6 KA11-BF4
 170 - RTTB REG BIT 2 KF071-CB4
 173 - RTTB REG BIT 3 KF071-CB4
 179 - RTTB REG BIT 4 CDA4
 177 - RTTB REG BIT 5 CE4
 175 - RTTB REG BIT 6 CF4

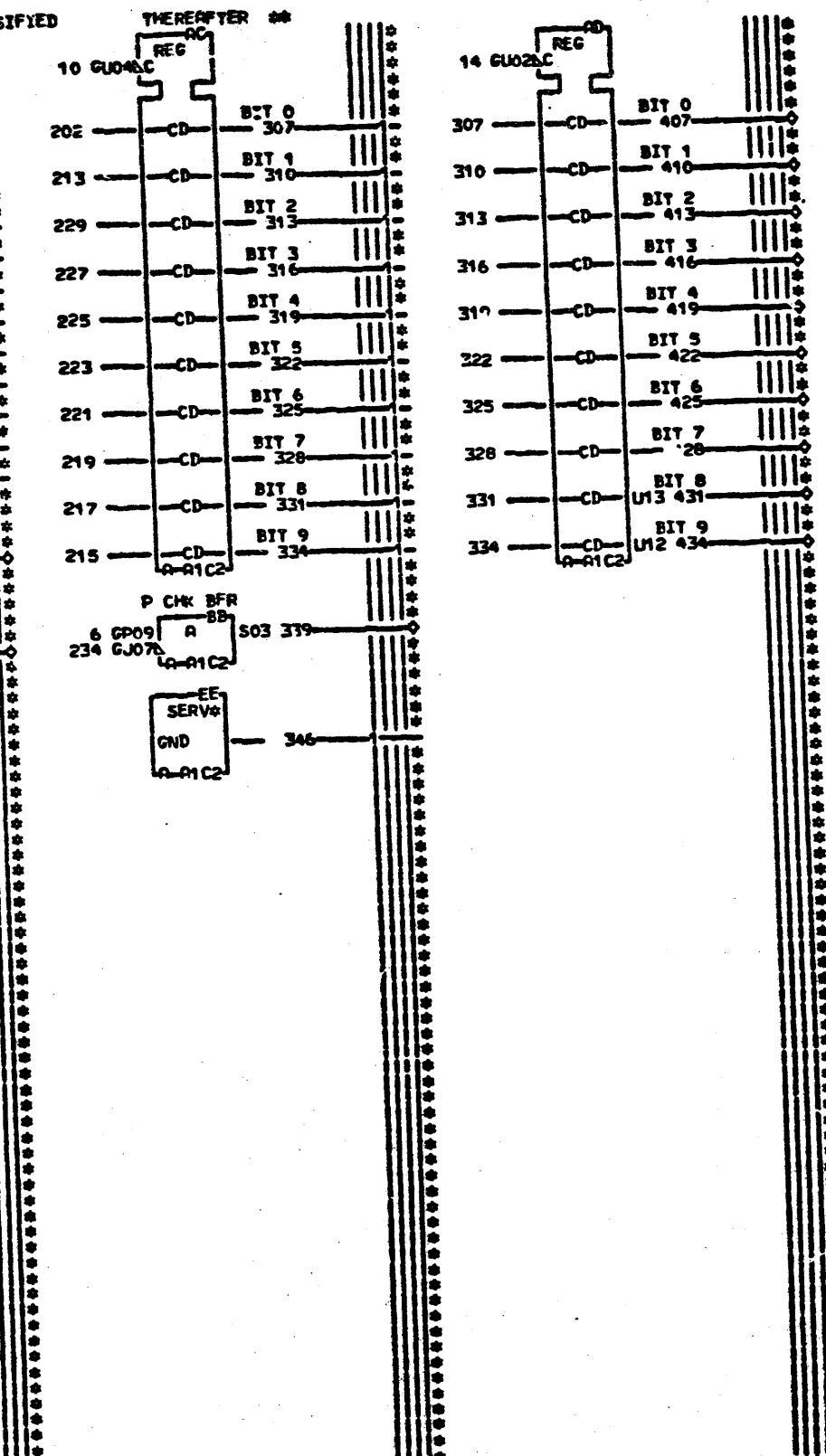
I/O GATING AND PARITY	PG011
-E.C.-HISTORY	PG011-3277
717473	
PHONE 01	PG011
IBM CORP./KN	PG031
DATE LAST EC	06-01-72 717473
IP/N 1623835	001

+ LOAD MESSAGE BUFFER KF031FC4-2
 + DOT ? KF021EF2-6
 - LATE REG STROBE KF021EG4-10
 - DOT KF021FB6-14
 - LOAD LATE REG KF051FJ4-18
 - SERIAL SHIFT GT KF171EC4-22
 - POR KF201ED4-26
 + FETS OUT BIT 0 RB131ED4-30
 + FETS OUT BIT 1 RB131ED4-34
 + FETS OUT BIT 2 RB131ED4-38
 + FETS OUT BIT 3 RB131ED4-42
 + FETS OUT BIT 4 RB131ED4-46
 + FETS OUT BIT 5 RB141ED4-50
 + FETS OUT BIT 6 RB141ED4-54
 + FETS OUT BIT 7 RB141ED4-58
 + FETS OUT BIT 8 RB141ED4-62
 + FETS OUT BIT 9 RB141ED4-66
 - FETS OUT BIT 1 KF031ED4-70
 - FETS OUT BIT 2 KF031ED4-74
 - FETS OUT BIT 3 KF031ED4-78
 - FETS OUT BIT 4 KF031ED4-82
 - FETS OUT BIT 5 KF031ED4-86
 - FETS OUT BIT 6 KF031ED4-90

R031 TO PW 1563794 EC 717946
 R031 TO PW 1563795 EC 717946

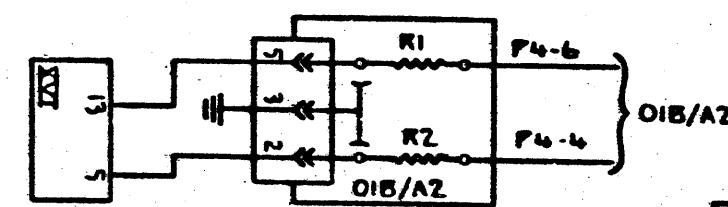
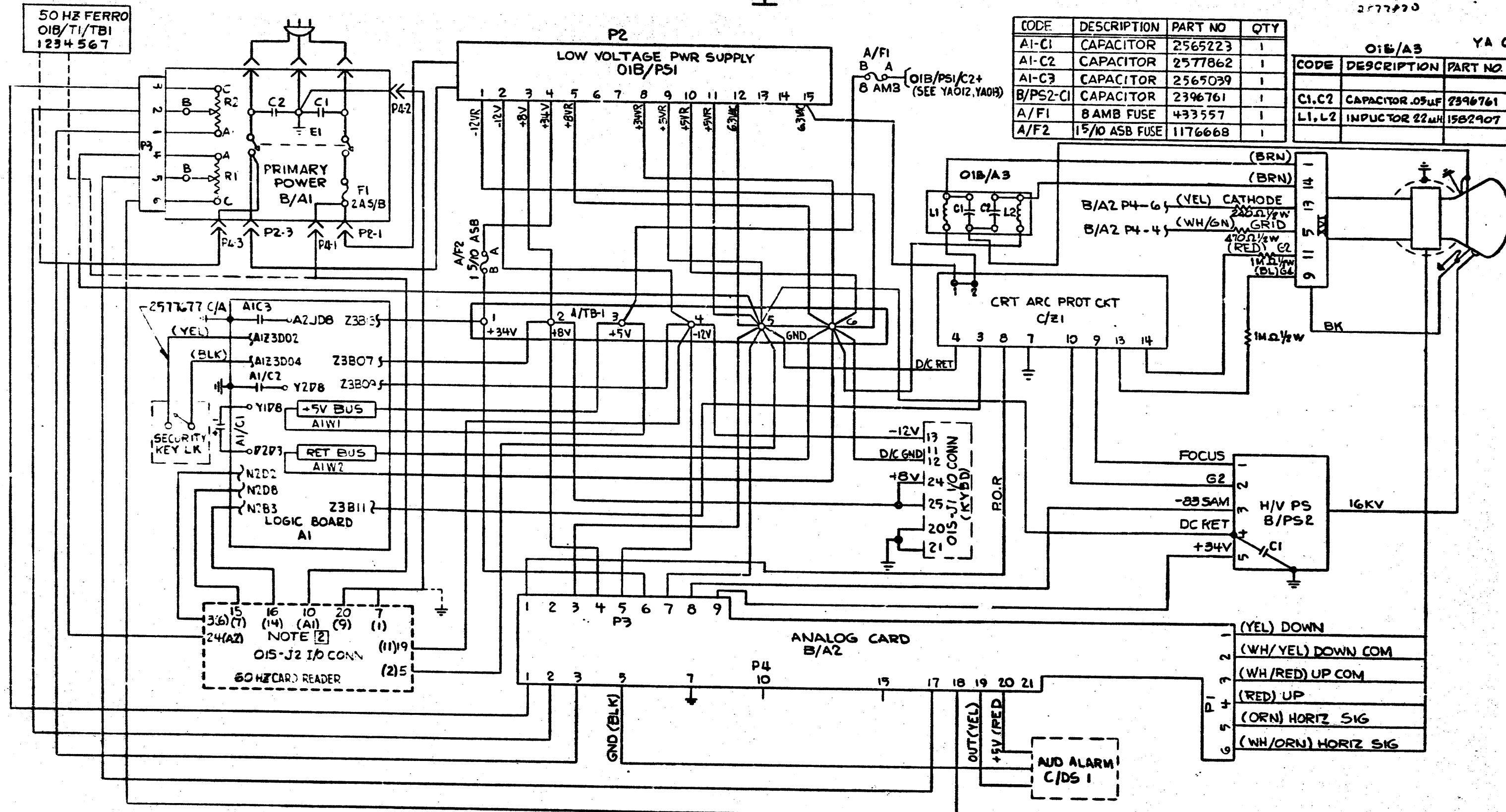


PAGE	VER	FC	LEV
RC041	001	717946	
RC051	001	717946	
RC061	000	7179473	



001 RC041 RC061
 000 RC051 000
 143 - FESS BFR BIT 7 KF111-CD4
 147 - FESS BFR BIT 8 KF111-CD4
 151 - FESS BFR BIT 9 KF111-CD4
 234 - ROW P CHK BFR 034
 157 + NULL IN FETS ER4
 339 + P CHK BFR KF141-EB4
 000 RC051 000
 407 + LATE REG BIT 0 RC011-EB2
 410 + LATE REG BIT 1 RC011-EB2
 413 + LATE REG BIT 2 RC011-EC2
 416 + LATE REG BIT 3 RC011-ED2
 240 - POR EK4
 4KR011 4KF131 4KR021 4KR071
 134 + POR EN5
 4KR011 4KF131 4KR041 4KT051
 000 RC061 000
 419 + LATE REG BIT 4 RC021-CE2
 422 + LATE REG BIT 5 RC021-CE2
 423 + LATE REG BIT 6 RC021-CE2
 428 + LATE REG BIT 7 RC021-CE2
 431 + LATE REG BIT 8 CF2
 430 + LATE REG BIT 9 CF2

I/O GATING AND PARITY	
-E-C-	HISTORY
717473	R0-A1C2 9066
717459	FRAME 01 RC041
717452	IBM CORP, SDD RC061
DATE LAST EC	P.No 1823840 001
08-05-72 717946	

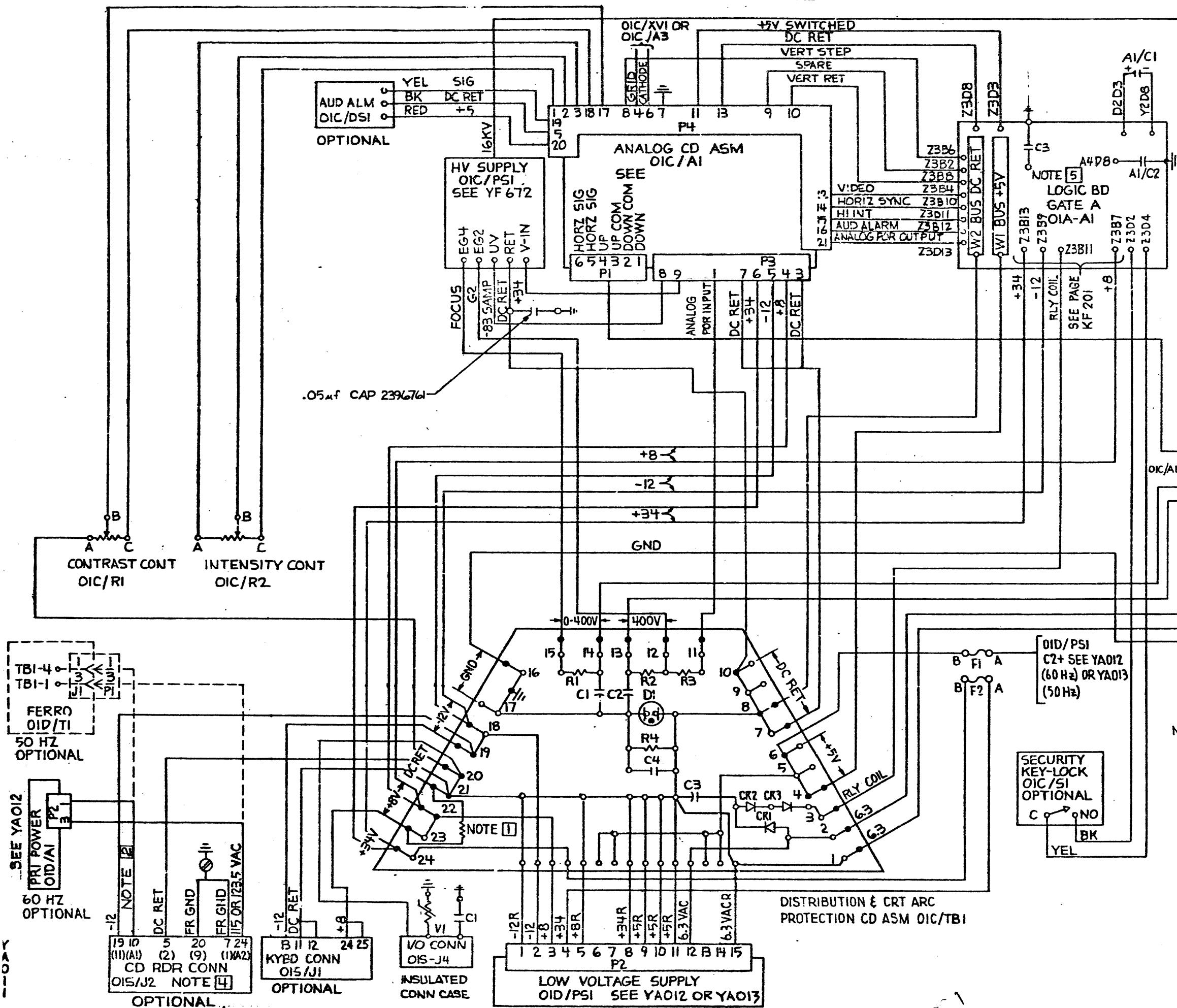


THIS DOCUMENT IS THE PROPERTY OF IBM. ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR IBM. ALL QUESTIONS MUST BE REFERRED TO THE PURCHASING DEPARTMENT.

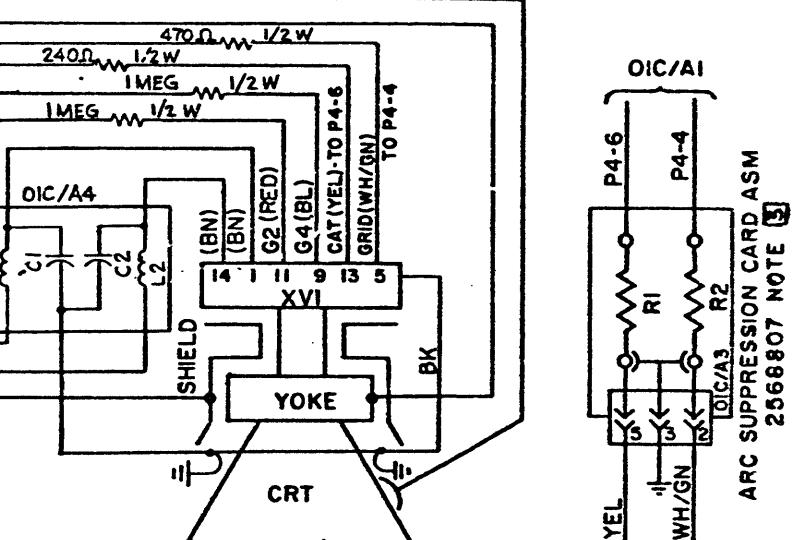
SEE EC HISTORY	DRAWING TITLE
JG73	73401
MAR74	739992
3FEB75	741722
MAY75	741690
	CLASSIFICATION

D

IBM CORP



OIC/TBI			
CODE	DESCRIPTION	PART NO.	QTY
R1, R2	RESISTOR 1M 2W	5252640	2
R3	RESISTOR 22M 1/2 W	505370	1
R4	RESISTOR 20K 1/2 W	300723	1
C1, C2	CAPACITOR 9000 pF	5252644	2
C3	CAPACITOR 56-15 DC	222091	1
DI	NEON NE 2H	602653	1
CRI, 2, 3	DIODE GY	2414891	3
C4	CAPACITOR .05 μF	2396761	1
OIA-AI			
AI/C1	CAPACITOR	2565223	1
C2, C3	CAPACITOR .05 μF	2565039	2
OIC/A4			
L1, L2	INDUCTOR 22 μH	1582907	2
C1, C2	CAPACITOR .05 μF	2396761	2
OIC/A3			
R1, R2	RESISTOR 100Ω 1W	2396969	2
OIC/			
F1	FUSE 8A MB	433557	1
F2	FUSE 15/10 ASB	1176668	1
OIS-J4			
C1	CAPACITOR .1 μF	5213736	1
VI	VARISTOR 33V	4406517	1



NOTES

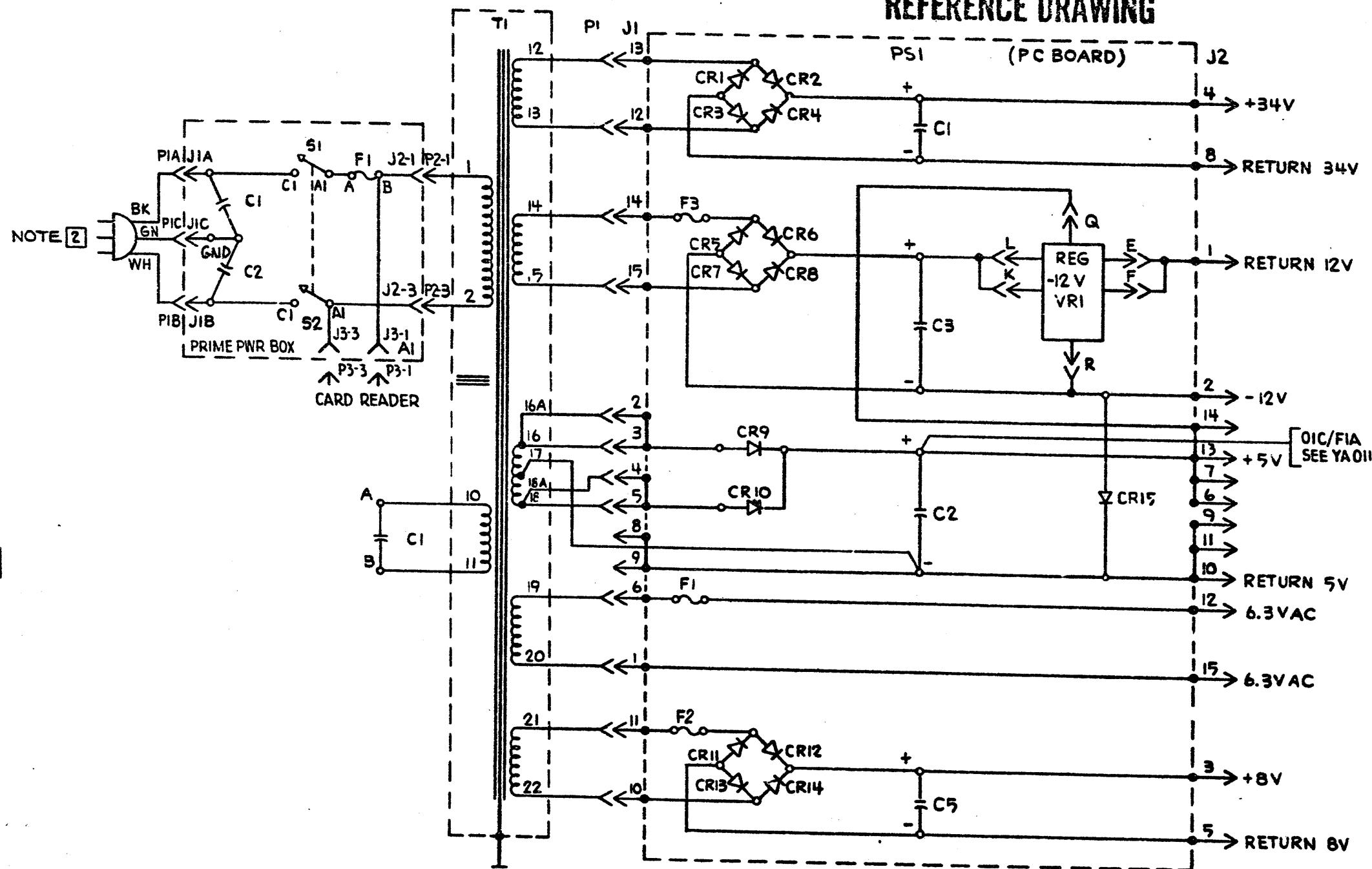
- 1 RESISTOR ASM 2565195(25Ω,5W) TO BE USED WHEN KEYBOARD IS NOT CONNECTED
- 2 100 VAC 60HZ, 115 VAC 60HZ OR 123.5 50 HZ
- 3 ARC SUPPRESSION CARD ASM IS ONLY USED ON UNITS WITH 2565236 ANALOG CARD ASM
- 4 NUMBERS IN PARENTHESIS ARE CONNECTOR PINS USED IN 50HZ APPLICATIONS
- 5 TERMINATES AT K3D8 WITH 1/2 BD & N3D8 WITH 2/3 BD

SEE EC HISTORY	DRAWING TITLE
APR 75 739999	POWER DIST & ANALOG
JAN 78 745414	MACH 3277-002
	PART NO 2564997
	CLASSIFICATION IBM CORP

D

REFERENCE DRAWING

YA 012



CODE	DESCRIPTION	PART NO
PSI	PRINTED CIRCUIT BOARD ASM	2481185
VRI	REGULATOR CARD-12V	2481207
PSIC1	CAPACITOR, 7.2K μ F 40V	5712125
PSIC2	CAPACITOR, 240K μ F 75V	5252526
PSIC3	CAPACITOR, 3.1K μ F 25V	483107
PSIC5	CAPACITOR, 60K μ F 10V	5252514
AIC1 & AIC2	CAPACITOR FILTER .01 μ F	737805
CI	CAPACITOR, 4 μ F 660VAC	2582939
CR1-CR8 CR15	DIODE, 1AMP 180V	5214324
CR9 & CR10	DIODE, 10AMP 150V	598479
CR11-CR14	DIODE, 3AMP 100V	149212
AIF1, PSIF1	FUSE, 2AMP SB 125 V	332009
PSIF2	FUSE, 5AMP SB 125 V	512137
PSIF3	FUSE, 2AMP SB 125 V	332009
S1 & S2	SWITCH, 10AMP 125/250V	5252566
T1	FERRO, 60HZ	NOTE [2]

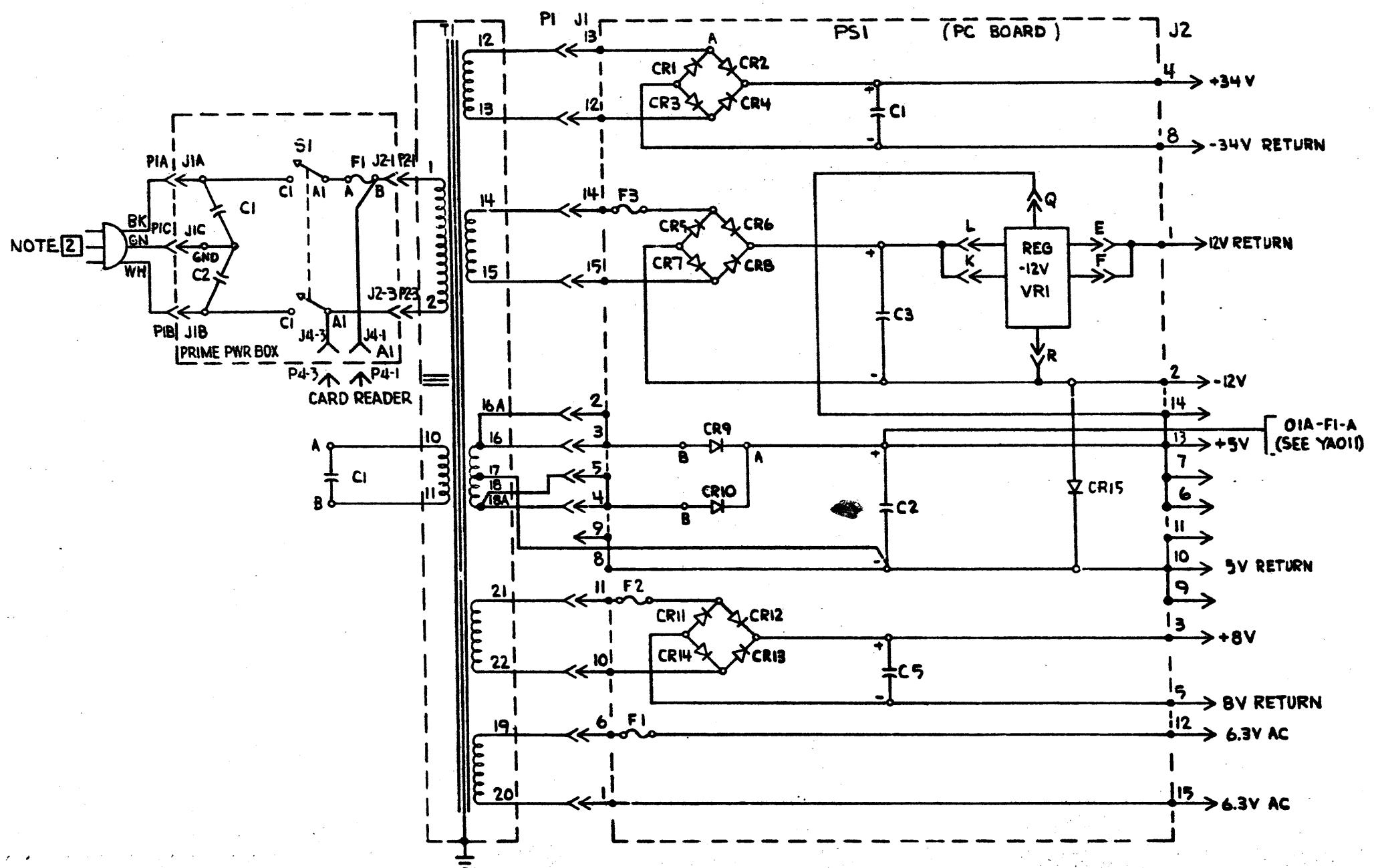
NOTES

1 ALL POWER UNITS IN OID/ZONE
2 THIS WIRING DIAGRAM PERTAINS TO 115VAC 1Ø 60HZ UNITS (FERRO P/N 2582999), OR
100VAC 1Ø 60HZ JAPAN UNITS (FERRO P/N 4119307).

EC HISTORY		DRAWING TITLE
SEE EC HISTORY		CKT. DIAG. 19C DISPL. UNIT 60HZ
16 JUL 73	739021	MACH
3 FEB 75	741722	PART NO 2481235
D		CLASSIFICATION
		10/16/75 JKLW OCT 77
		IBM CORP

REFERENCE DRAWING

YAO12



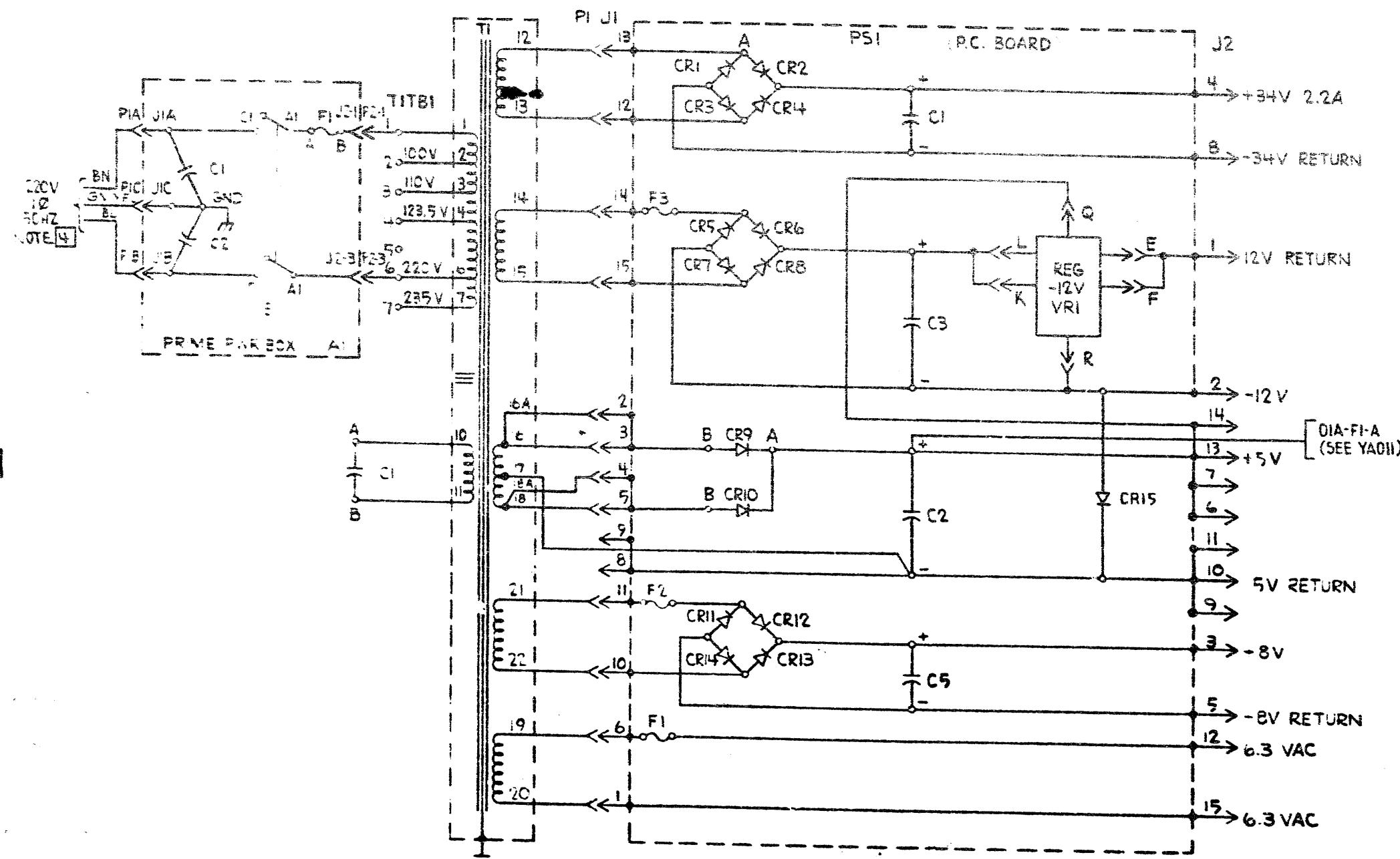
CODE	DESCRIPTION	PART NO
PSI	PRINTED CIRCUIT BOARD ASM	24611B5
VRI	REGULATOR CARD -12V	2481207
PSIC1	CAPACITOR 7.2K μ F 40V	5712125
PSIC2	CAPACITOR 240K μ F 7.5V	5252526
PSIC3	CAPACITOR 3.1K μ F 25V	483107
PSIC5	CAPACITOR 60K μ F 1CV	5252514
AIC1-EAC2	CAPACITOR, FILTER .01MF	737605
CI	CAPACITOR AC 4 μ F 660VAC	2502939
CR1-CR8, CR15	DIODE 1AMP 180V	5214324
CR9-CR10	DIODE 10AMP 150V	598479
CR11-CR14	DIODE 3AMP 100V	1149212
AIFI, PSIFI	FUSE 2AMP SB 125V	332009
PSIF2	FUSE 5AMP SB 125V	512137
PSIF3	FUSE 2AMP SB 125V	332009
SI	SWITCH	5252626
TI	FERRO, 60HZ	NOTE [2]

NOTES

1 ALL POWER UNITS IN OID/ZONE
2 THIS WIRING DIAGRAM PERTAINS TO 115 VAC 1Φ 60HZ UNITS (FERRO P/N 2582999),
OR 100 VAC 1Φ 60HZ JAPAN UNITS (FERRO P/N 4119307).

EC HISTORY		DRAWING TITLE
SEE EC	HISTORY	SYS DIAG 48C DISPL UNIT 60HZ
16 JUL 73	739 021	MACH
3 FEB 75	741722	PART NO 24-81234
		CLASSIFICATION
		14JL10/73 <i>[Signature]</i> OCT 73
		IBM CORP

REFERENCE DRAWING



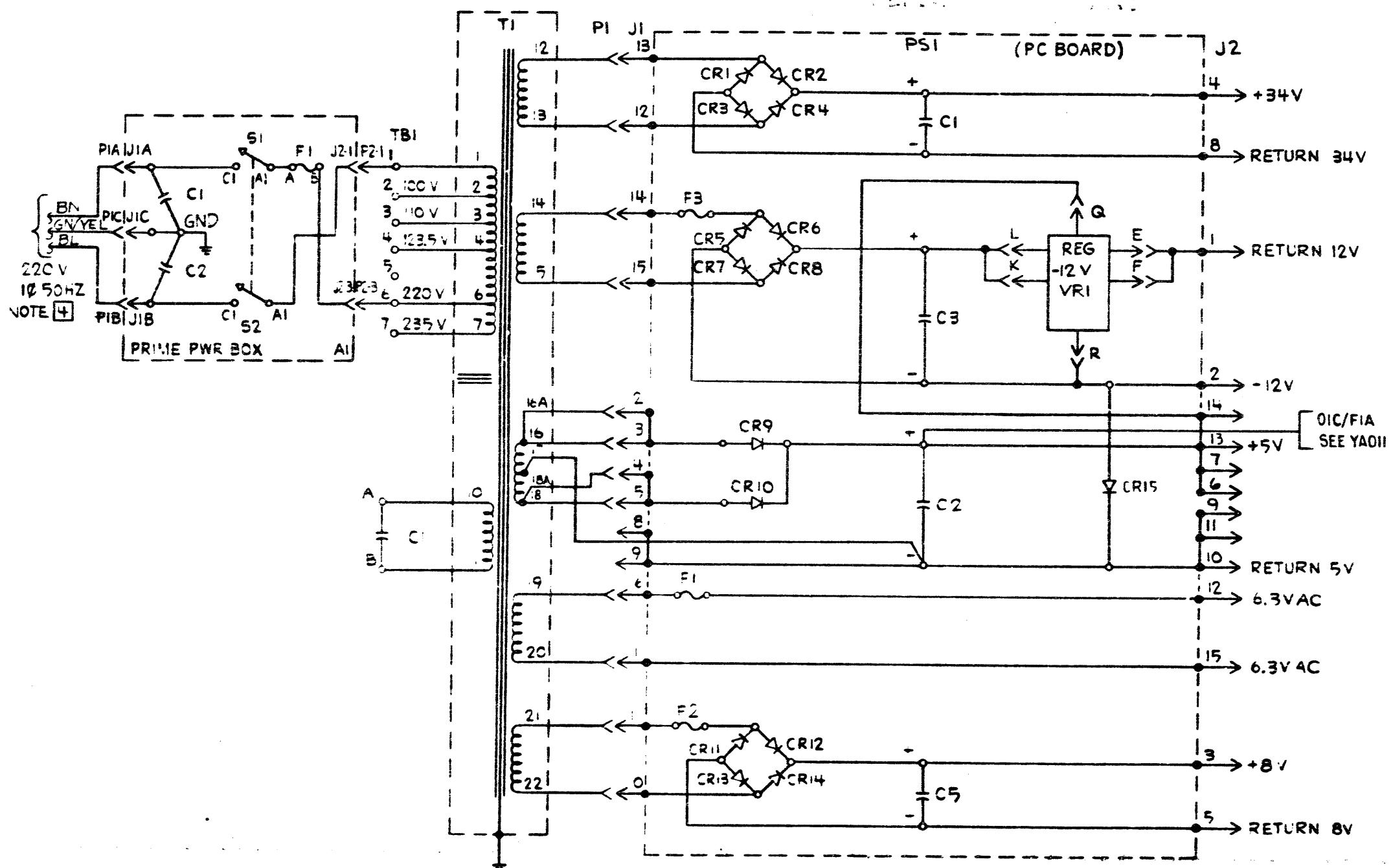
CODE	DESCRIPTION	PART NO
PSI	PRINTED CIRCUIT BOARD 15V	2-8-65
VRI	REGULATOR CARD-.2V	24B1207
PSIC1	CAPACITOR 7.2K UF 40V	5712125
PSIC2	CAPACITOR 240K UF 7.5V	5252526
PSIC3	CAPACITOR 3.1K UF 25V	433107
PSIC5	CAPACITOR 60K UF 10V	5252514
AIC1 & AIC2	CAPACITOR FILTER .01UF	37805
C1	CAPACITOR LC -.5F 660VAC	2582939
CR1-CR8 CR15	DIODE 1AMP 180V	5214324
CR9 & CR10	DIODE 3AMP 150V	598479
CR11-CR14	DIODE 3AMP .00V	149212
PSIF1	FUSE 2AMP SB125 V	332009
PSIF2	FUSE 5AMP SB125 V	512-37
PSIF3	FUSE 2AMP SB125 V	332009
AIFI	FUSE 1AMP SB 250 V	NOTE [2]
	FUSE 2AMP SB 125 V	NOTE [3]
SI	SWITCH	5252626
TI	FERRO, 5CHZ	4119272

NOTES

- ALL POWER UNITS IN OID/ZONE
- FUSE 303549 IS REQUIRED WHEN THE UNIT IS WIRED FOR 220V OR 235 V
- FUSE 332039 IS REQUIRED WHEN THE UNIT IS WIRED FOR 200V, 110V OR 123.5 V

④ THE INPUT COLOR CODING FOR 100 VAC 1Ø 50HZ
JAPAN UNITS IS BK,WH,GN/YEL

EC HISTORY		DRAWING TITLE
1 OCT 71	716727	SYS DIAG + EC DISPL UNIT 50 MHZ
5 MAY 72	717675	MACH
9 FEB 73	738312	PART NO 2481238
16 JUL 73	739021	CLASSIFICATION
3 FEB 75	741722	ENL 4K/8K VLSI 15%



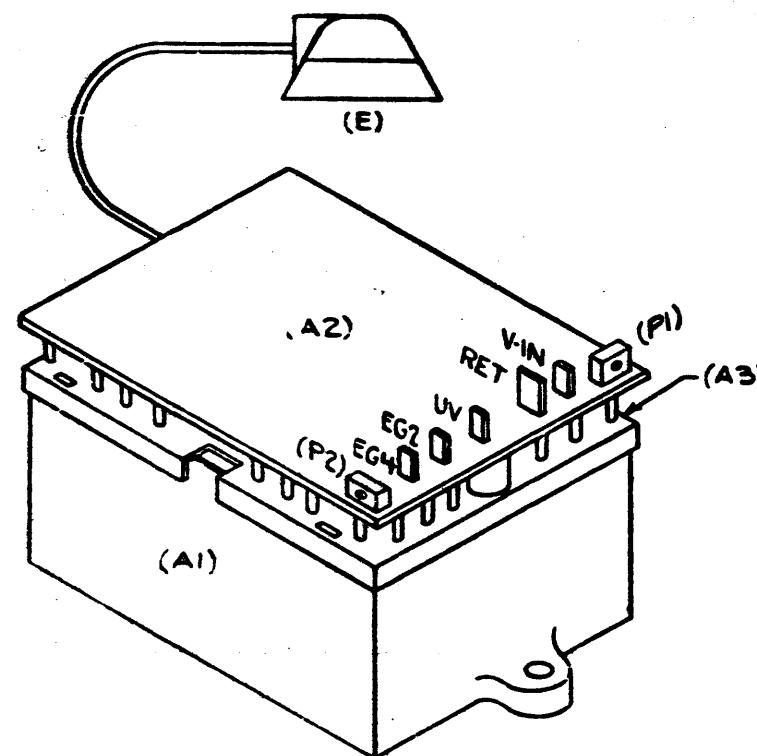
NOTES

- 1 ALL POWER UNITS IN OID/ZONE
- 2 FUSE 303549 IS REQUIRED WHEN THE UNIT IS WIRED FOR 220V OR 235V
- 3 FUSE 332009 IS REQUIRED WHEN THE UNIT IS WIRED FOR 100V, 110V, OR 123.5V

④ THE INPUT CABLE COLOR CODING FOR 100VAC
10 50HZ JAPAN UNITS IS BK,WH,GN/YEL

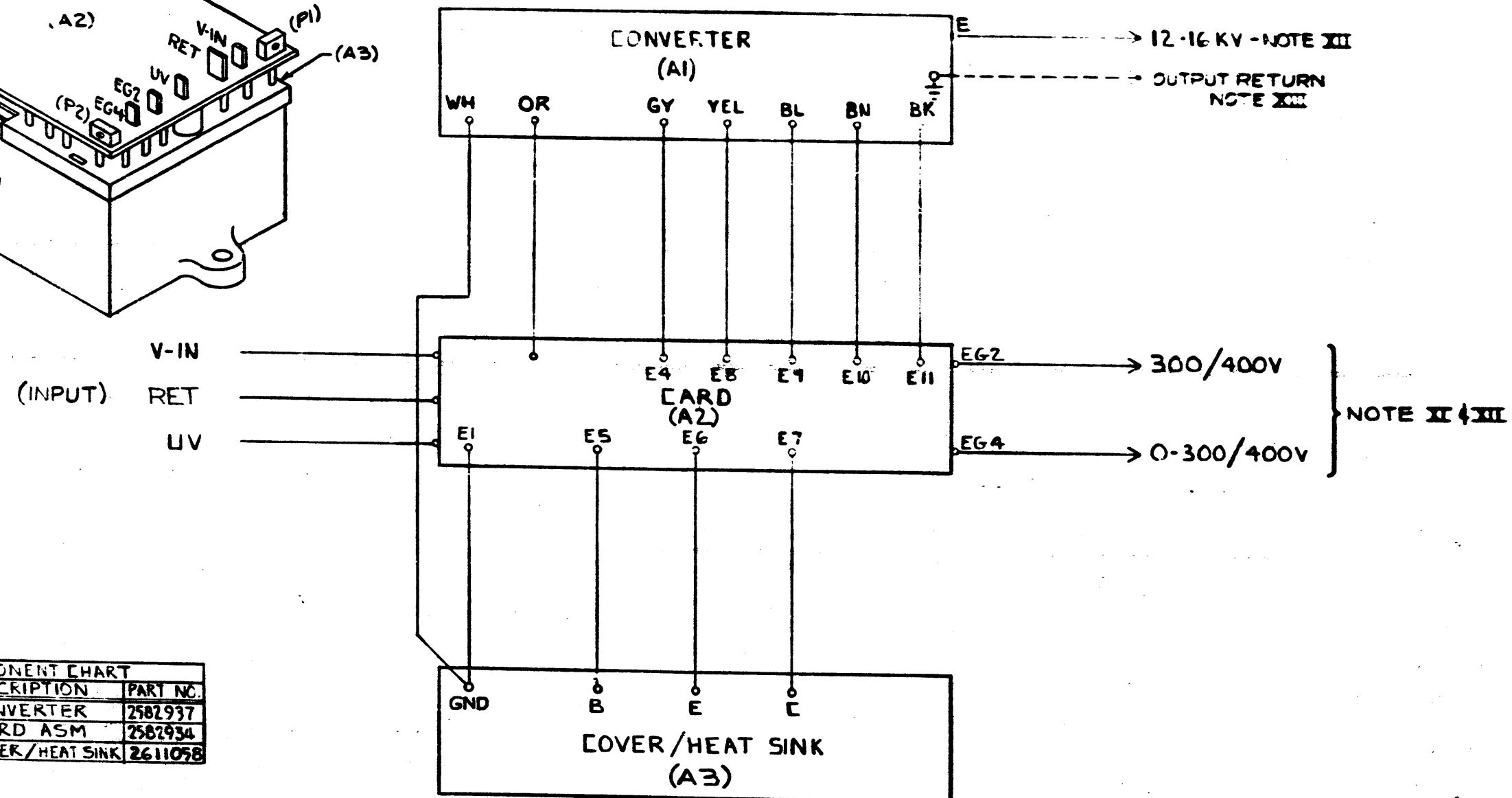
CODE	DESCRIPTION	PART NO
PSI	PRINTED CIRCUIT BOARD ASM	2481185
VRI	REGULATOR CARD -12V	2481207
PSIC1	CAPACITOR,7.2K UF 40V	5712125
PSIC2	CAPACITOR,240K UF 7.5V	5252526
PSIC3	CAPACITOR,3.1K UF 25V	483107
PSIC5	CAPACITOR,60 K UF 10V	5252514
AIC1&AIC2	CAPACITOR, FILTER .01UF	737805
C1	CAPACITOR, 4UF 660VAC	2582939
CR1-CR8,CP15	DIODE, 1AMP 180V	5214324
CR9&CR10	DIODE, 10AMP 150V	598479
CR11-CR14	DIODE, 3AMP 100V	1+9212
PSIF1	FUSE, 2AMP SB 125 V	332009
PSIF2	FUSE, 5AMP SB 125 V	512137
PSIF3	FUSE, 2AMP SB125 V	332009
AIFI	FUSE, 1AMP SB 250 V	NOTE 2
	FUSE, 2AMP SB 125 V	NOTE 3
S1&S2	SWITCH, 10AMP 125/250V	5252566
T1	FERRO, 50 HZ	4119272

EC HISTORY		DRAWING TITLE
SEE EC	HISTORY	CKT DIAG 19C DISPL UNIT 50HZ
16 JUL 79	739021	MACH
3 FEB 75	741722	PART NO 2481236
		CLASSIFICATION
D		ML 1/MAR 1979 IBM CORP



12-16 KV / 300-400 VOLT POWER SUPPLY

REFERENCE DWG



NOTE:

- X THIS SUPPLY IS NOT TO BE REPAIRED IN THE FIELD
- XI EXTERNAL SUPPRESSION NETWORKS MUST BE PROVIDED BY USER TO PREVENT SUPPLY DAMAGE IN CASE OF THE LOAD (CRT) ARCING BETWEEN THE HIGH & LOW VOLTAGE LEVELS

XII PI-HIGH VOLTAGE ADJUSTMENT (12-16KV)

-DO NOT FIELD AJUST.

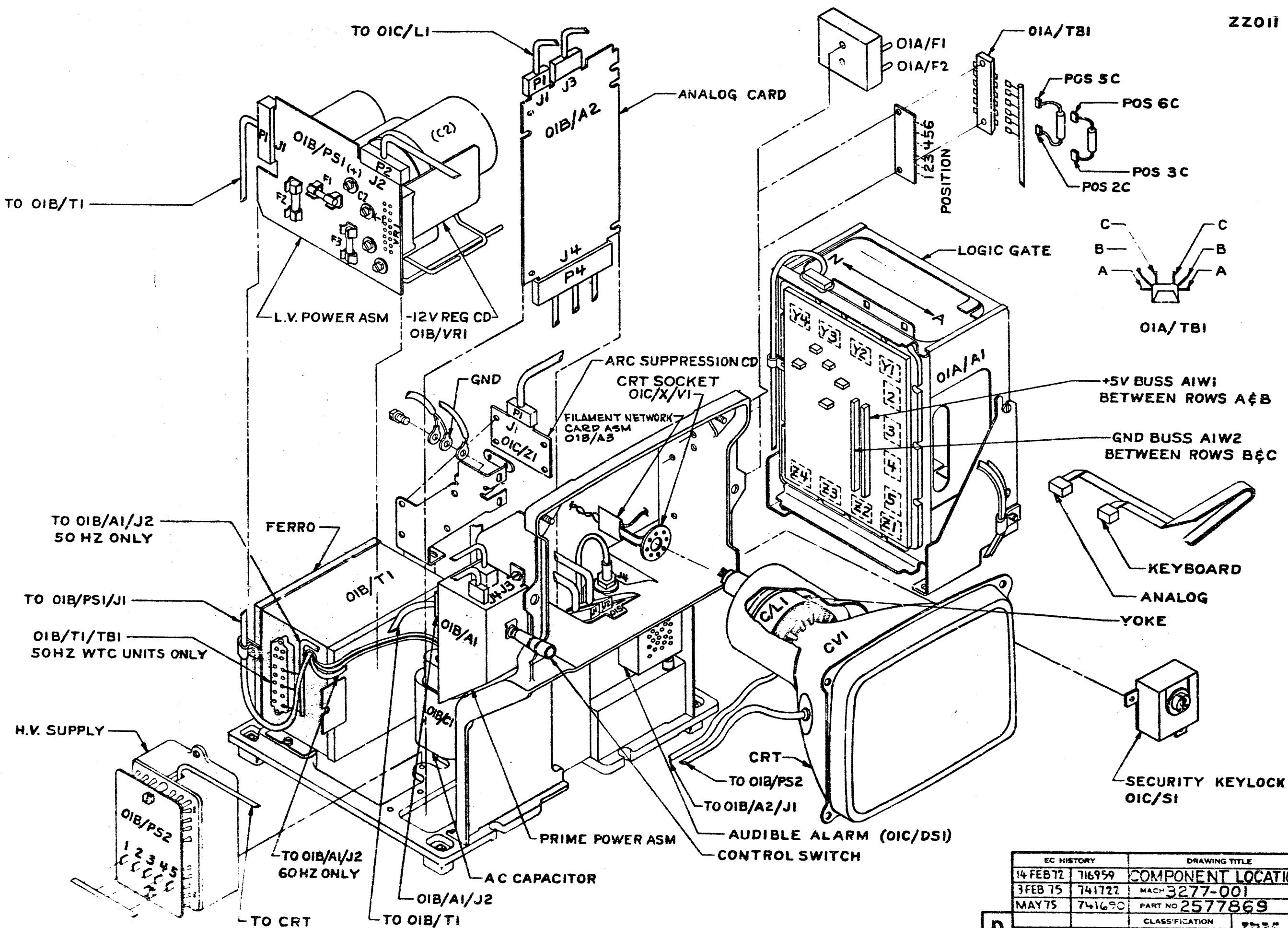
P2-EG4 VOLTAGE ADJUSTMENT (0-300/400V)

-FOCUS ADJUSTMENT.

XIII OUTPUT RETURN PATH IS THRU CHASSIS OF SUPPLY. CONVERTER CASE MUST BE GROUNDED

THIS DOCUMENT IS THE PROPERTY OF IBM. ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR IBM. ALL QUESTIONS MUST BE REFERRED TO THE IBM PURCHASING DEPARTMENT.

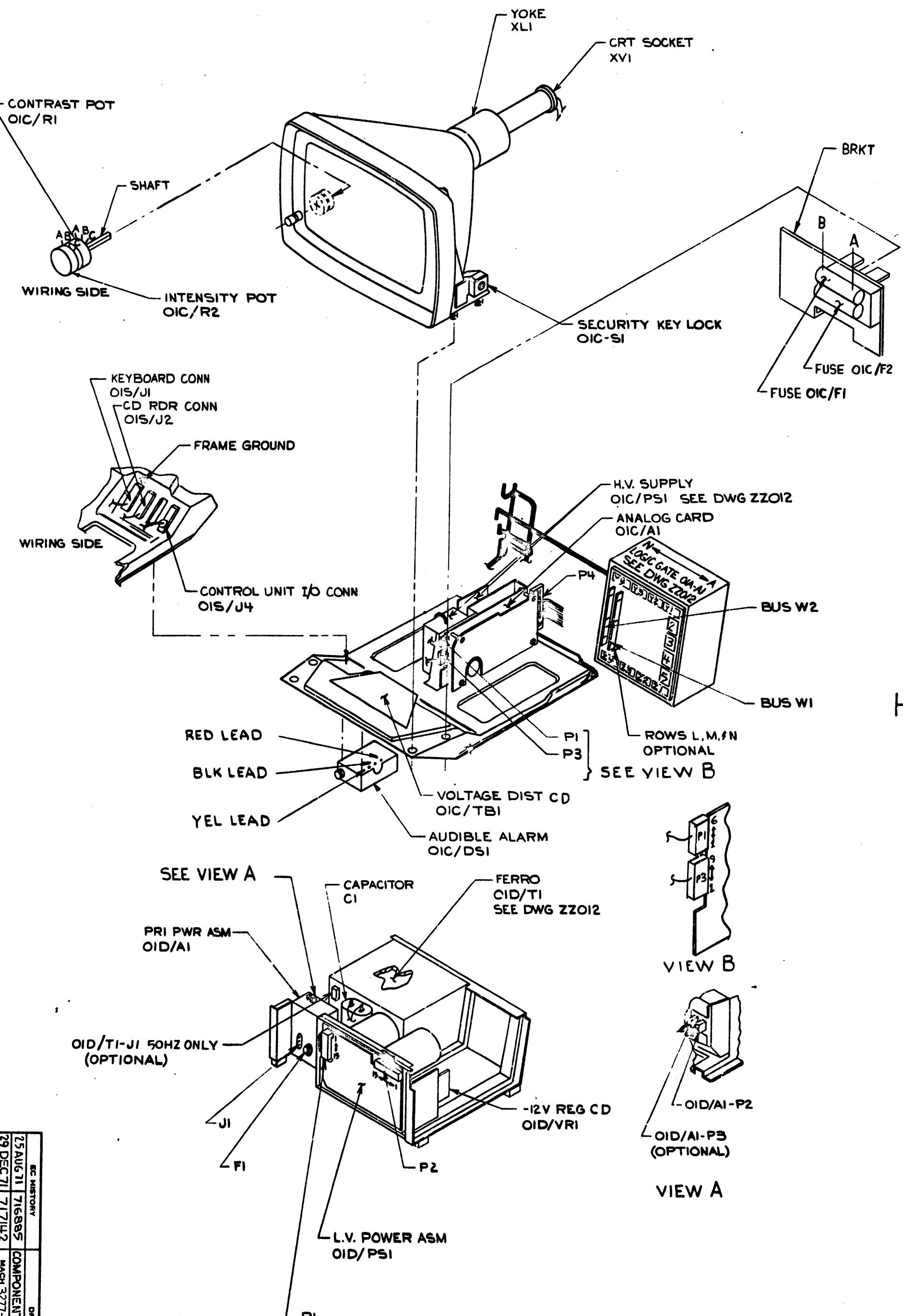
SEE EC HISTORY	DRAWING TITLE
3 OCT 72 718306	SYSTEMS DIAGRAM
29 OCT 72 718307	MACH
11 JAN 73 738051	PART NO 2611043
D	CLASSIFICATION
0-1043 IBM Corp	



EC HISTORY		DRAWING TITLE
14 FEB 72	716959	COMPONENT LOCATION
3 FEB 75	741722	MACH 3277-001
MAY 75	741690	PART NO 2577869
		CLASSIFICATION IBM CORP

D

ZZOII

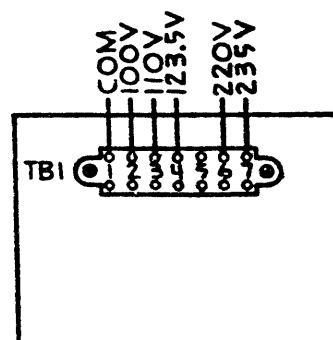
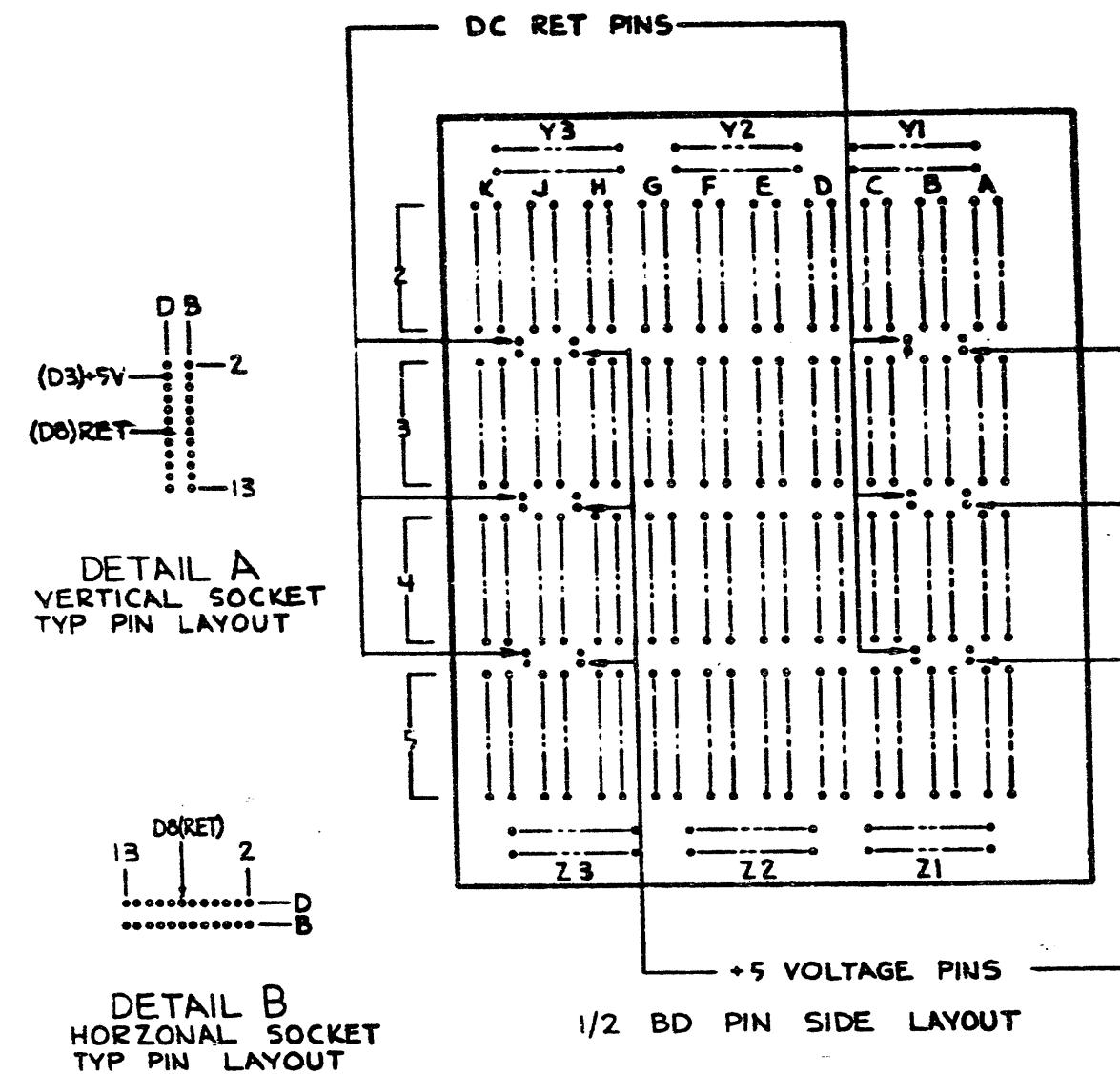
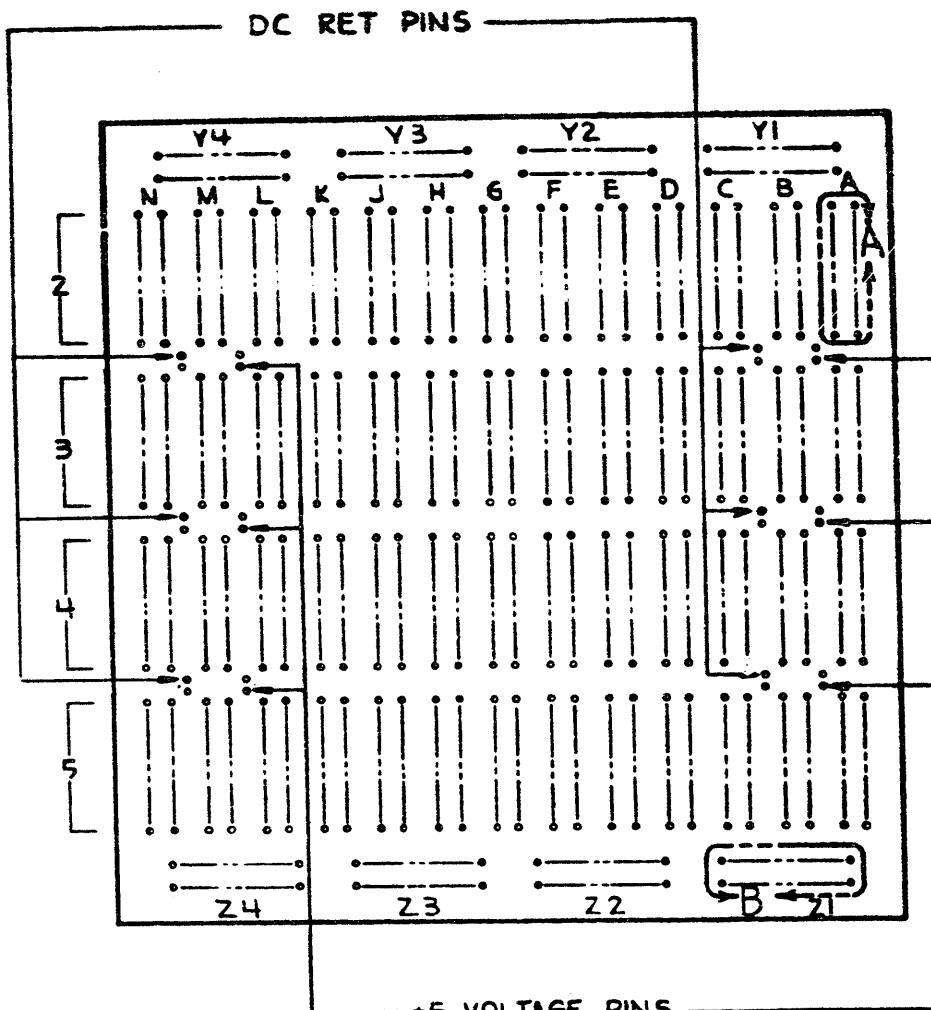


FOR 3277-002 ONLY

ZZ011

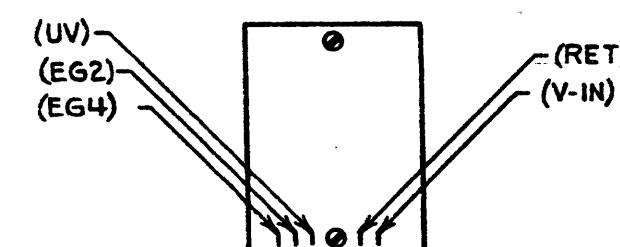
EC HISTORY	DRAWING TITLE
75AUG71	716885
29DEC71	717142
23OCT72	MACH 3277-C02
3FEB75	718383
	PART NO 2564995
	CLASSIFICATION
	IBM corp

--0NN



50 HZ FERRO
SEE ZZ 011

Z
Z
O
I
2



H V SUPPLY
(CABLE SIDE)
SEE ZZ011

EC HISTORY		DRAWING TITLE	
25 AUG 71	716885	COMPONENT LOCATION	
29 DEC 71	717142	MACH 3275 #3277	
7 AUG 72	715098	PART NO 2564993	
D		CLASSIFICATION	IBM CORP

REFERENCE DRAWING

TABLE 1**CHARACTER GENERATOR CARD**

THE FOLLOWING LIST DESCRIBES THE PART NUMBER CARD TO BE IN THE A-AI K2 CARD SOCKET DEPENDING ON THE FEATURE OR RPQ REQUIRED:

MACHINE TYPE	LANGUAGE	CARD TYPE	LATEST P/N(852)	EQUIVALENT P/N (852)
MOD I MONO CASE	U.S. ENGLISH	9058	4302	0576
	USAC II A	9103	4305	0584
	USAC II B	9104	4306	0585
	U.K. ENGLISH	9102	4304	0583
	GERMAN	9101	4303	0582
	SWD/FIN	W068	4307	1455
	NOR/DEN	W069	4308	1456
	SPANISH	W070	4309	1457
	PORT/BRAZIL	W072	4311	1459
MOD II MONO CASE	U.S. ENGLISH	9070	4289	0577
	USAC II A	9098	4292	0580
	USAC II B	9099	4293	0581
	U.K. ENGLISH	9097	4291	0579
	GERMAN	9096	4290	0578
	SWD/FIN	W075	4294	1462
	NOR/DEN	W076	4295	1463
	SPANISH	W077	4296	1464
	PORT/BRAZIL	W079	4298	1466
MOD I & II DUAL CASE	U.S. ENGLISH	4710	1708	—
	U.K. ENGLISH	4711	1709	—
	KATA KANA	9123	1707	—
	AUS/GER	4712	1710	—
	BEL/FRANCE	4713	1711	—
	DEN/NOR	X415	1854	—
	FIN/SWD	X416	1855	—
	ITALY	X417	1858	—
	SPANISH	X418	1859	—
	PORT/BRAZIL	X419	1857	—

NOTES

- ① THE "LATEST" P/N IS INTERCHANGEABLE FOR THE "EQUIVALENT" P/N, BUT THE "EQUIVALENT" IS NOT INTERCHANGEABLE FOR THE "LATEST"
- ② EQUIVALENT PART NO. ARE INTERCHANGEABLE

TABLE 2**INTERCHANGEABLE CARDS**

THE FOLLOWING CARDS CAN BE USED INTERCHANGEABLY ONLY THE LATEST P/N IS SHOWN IN THE LOGIC. THESE CARDS ARE IDENTICAL IN LOGIC

TYPE NO.	LATEST P/N	EQUIVALENT P/N	EQUIVALENT P/N
9067	8522836	8522014	—
9068	8523664	8522151	8522109
L514	8527302	8522013	—
9069	8524282	8522852	—
9069	—	8524282	8523647
9072	8527296	8522001	—
9072	8527296	8523633	8523616
9066	8523648	8521992	—
9071	8524604	8523649	—
9071	8524604	8523617	—
9071	8524604	8522825	8521981

NOTE ①
NOTES ① & ②
NOTE ①
NOTE ①
NOTE ②
NOTE ①
NOTE ②
NOTE ①
NOTE ①
NOTE ①
NOTE ①
NOTES ① & ②

TABLE 3**KEYBOARD FEATURE JUMPER**

THE FOLLOWING LIST DESCRIBES THE JUMPERS REQUIRED ON THE A-AI BOARD DEPENDING ON THE PARTICULAR KEYBOARD CONFIGURATION. THESE JUMPERS ARE NO. 30 BLACK WIRE (P/N 811695)

FEATURE NAME	FEATURE B/M	JUMPER REQUIRED
KATAKANA LANG	2568804	ADD A2B06 TO A2D08 B4B13 TO B3D08
NUMERIC LOCK FOR: U.S. ENGLISH U.K. ENGLISH KATAKANA	2568694	ADD B4B12 TO B4D08 REMOVE (IF IN)- B5B03 TO B5D08
NUMERIC LOCK FOR: GERMAN FRENCH ITALIAN	2568696	ADD B4B12 TO B4D08 B5B03 TO B5D08

CARD READER FEATURE JUMPERS

[FEATURE NO. 4600 WITH 2706]

IF A CARD READER IS INSTALLED IN A MACHINE WITH THE KATAKANA LANGUAGE FEATURE, A JUMPER IS REQUIRED ON THE A-AI BOARD BETWEEN N2D05 AND N3B05 USING NO. 30 BLACK WIRE (P/N 811695)

[FEATURE NO. 4600 IN ANY 3277 MACHINE]

IF A CARD READER IS INSTALLED IN ANY 3277 MACHINE, A RESISTOR ASM. P/N 2568741 IS REQUIRED ON THE A-AI BOARD BETWEEN N2D03 AND N2J06

EC HISTORY		DRAWING TITLE	
JUL74	740362	3277 MOD 1 & 2 FEATURE	
JAN75	741246	MACH 3277	
MAR75	741258	PART NO. 1564041	
D		CLASSIFICATION	
		IBM CORP	